

1984

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CALIFORNIA · STATE · UNIVERSITY
SAN · BERNARDINO

BULLETIN · 1984-85



THE CALIFORNIA STATE UNIVERSITY

In late July, California State College, San Bernardino became California State University, San Bernardino. The new name for the college is reflected on the cover of this Bulletin; other references to the institution say College because of the lateness of the name change.

This Bulletin represents the College's course descriptions and requirements at the undergraduate and graduate levels. California State College, San Bernardino reserves the right to revise Bulletin provisions in accordance with official actions of the Board of Trustees of the California State University and other governing bodies. Students are advised to consult the appropriate department, school or office for current information. Supplementary bulletins contain additional information about continuing education summer programs. The 1984-85 Bulletin may be purchased at the College Bookstore, California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407.

Inquiries about admission to the college should be directed to Associate Dean of Admissions, Records and Outreach, (714) 887-7311; requests for general academic information and about graduate programs may go to the Associate Vice President, Academic Programs, (714) 887-7521, California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407.

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Vol. 14 No. 1 June 1984

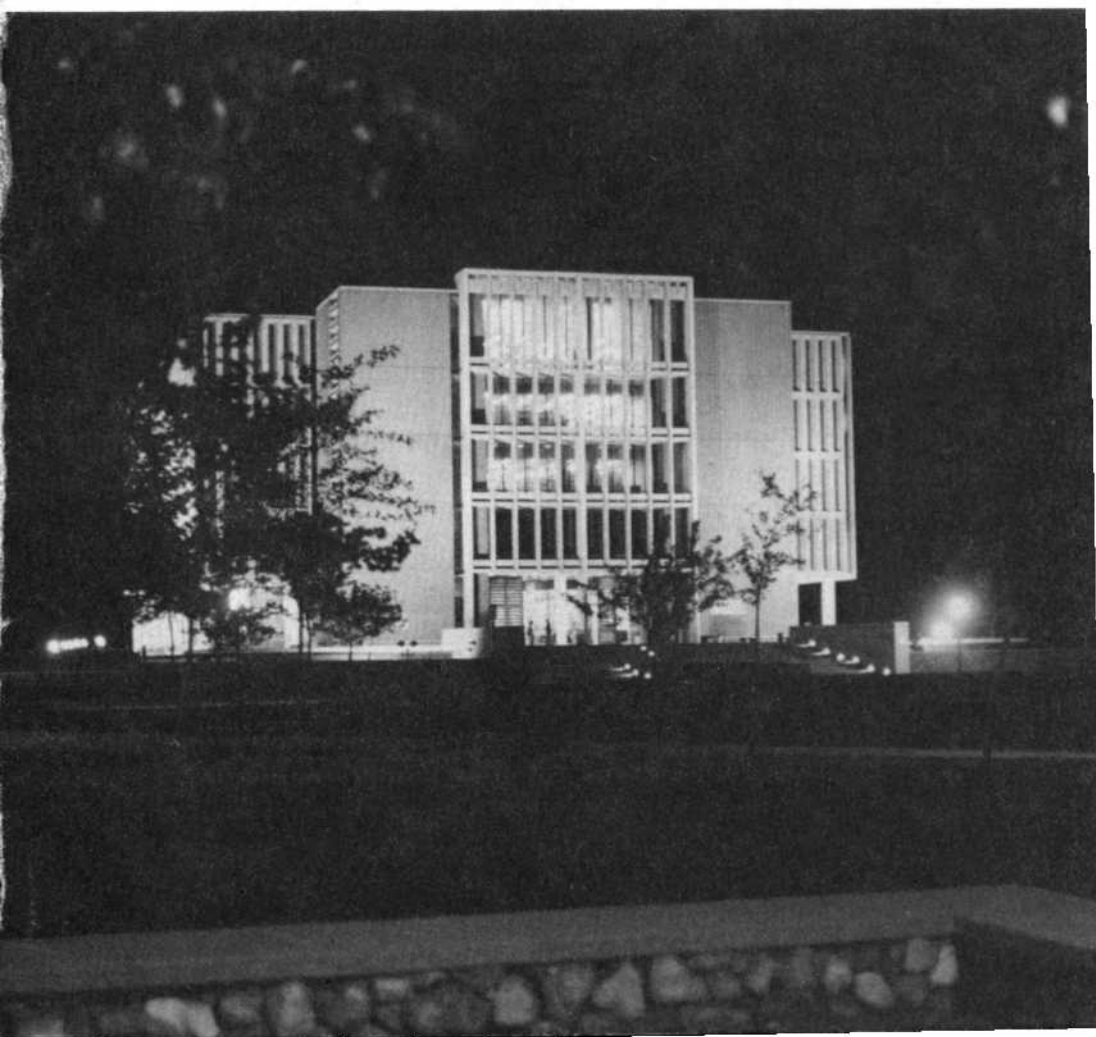
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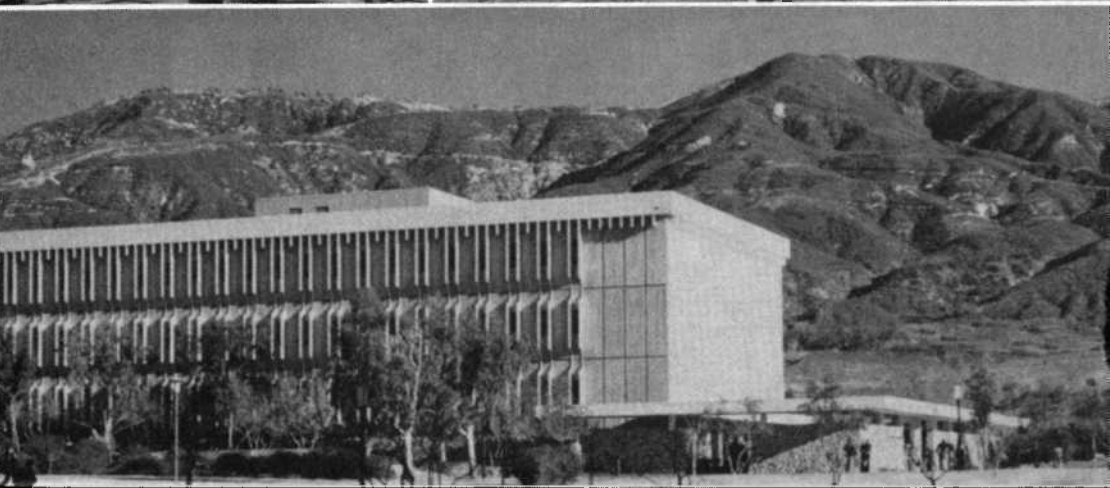
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CALIFORNIA · STATE · UNIVERSITY
SAN · BERNARDINO

BULLETIN · 1984-1985





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CALENDAR
1984-85

FALL TERM

Sept. 11	Beginning of the academic year
Sept. 12-14	Orientation of new students
Sept. 13-14	Advising
Sept. 17-18	Registration
Sept. 19	Late registration begins
Sept. 20	Classes begin
Sept. 26	Late registration ends
Oct. 10	Last day to drop classes
Oct. 11	Last day to file graduation check for March graduation; see page 73
Nov. 15-16, 19-21	Advising
Nov. 22-24	Thanksgiving holiday
Nov. 30	Last day of classes
Dec. 3-6	Final examinations
Dec. 20-25	Christmas holiday

WINTER TERM

Jan. 1	New Year's Day holiday
Jan. 2-3	Registration
Jan. 4	Late registration begins
Jan. 7	Classes begin
Jan. 11	Late registration ends
Jan. 21	Martin Luther King Jr.'s birthday holiday
Jan. 28	Last day to drop classes
Jan. 28	Last day to file graduation check for June, July and August graduation; see page 73
March 4-8	Advising
March 18	Last day of classes
March 19-22	Final examinations

1984

SEPTEMBER

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OCTOBER

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NOVEMBER

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Calendar / 5

SPRING TERM

March 27–28	Registration
March 29	Late registration begins
April 1	Classes begin
April 5	Late registration ends
April 19	Last day to drop classes
April 22	Last day to file graduation check for December graduation; see page 73
May 25–27	Memorial Day holiday
June 10	Last day of classes
June 11–14	Final examinations
June 15	Commencement

SUMMER SESSIONS

June 18	Registration
June 19	Classes begin for summer session I
July 4–5	Independence Day holiday
July 22–26	Registration for sessions II and III
July 24	Classes end for session I
July 29	Classes begin for sessions II and III
Aug. 16	Classes end for session II
Aug. 29	Classes end for session III

FALL TERM 1985

Sept. 17	Beginning of the academic year
Sept. 18–20	Orientation of new students
Sept. 19–20	Advising
Sept. 23–24	Registration
Sept. 25	Late registration begins
Sept. 26	Classes begin
Oct. 2	Late registration ends
Oct. 16	Last day to drop classes
Oct. 17	Last day to file graduation check for March graduation; see page 73
Nov. 21–22, 25–27	Advising
Nov. 28–30	Thanksgiving holiday
Dec. 6	Last day of classes
Dec. 9–12	Final examinations
Dec. 23–25	Christmas holiday

APRIL

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OCTOBER

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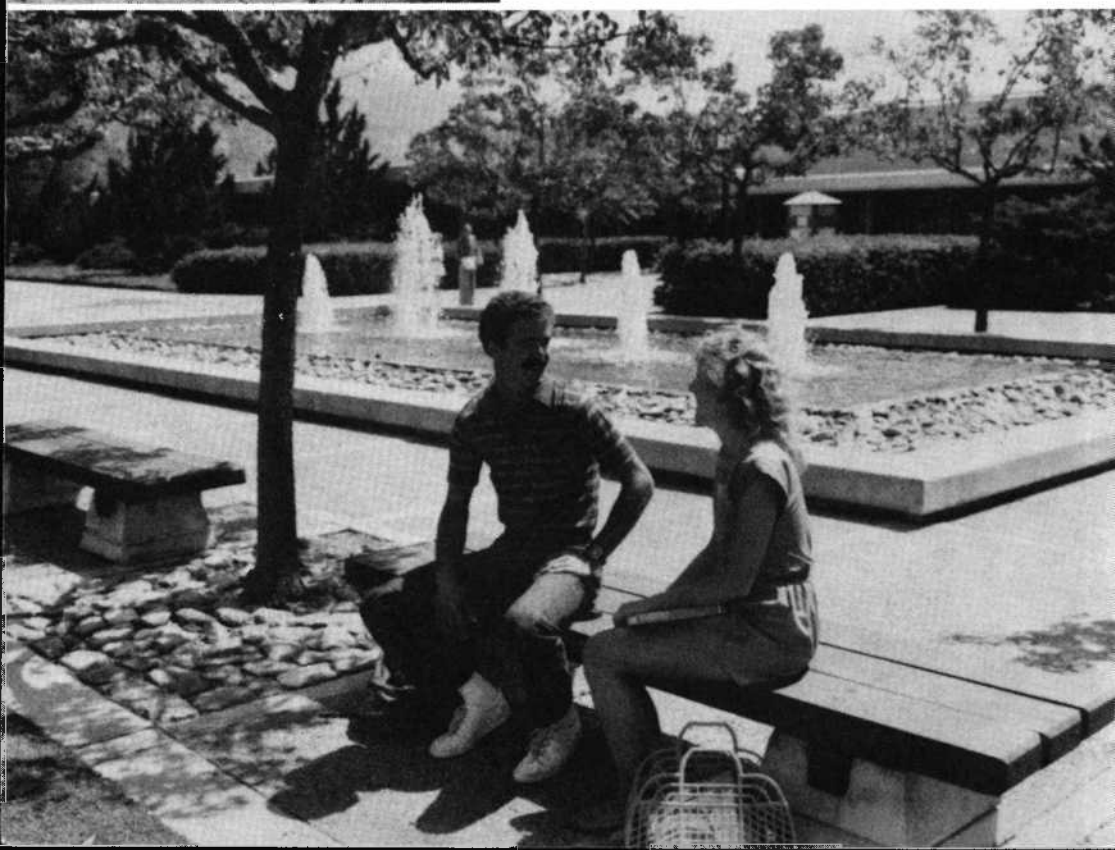
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DECEMBER

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For a more detailed calendar of academic dates and deadlines, see quarterly class schedule.



THE CALIFORNIA STATE UNIVERSITY

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act in 1960. In 1972 the system became The California State University and Colleges and in 1982 it became The California State University.

The oldest campus, San Jose State University, was founded in 1857 and became the first institution of public higher education in California. The newest campus, California State College, Bakersfield, began instruction in 1970.

Responsibility for The California State University is vested in the Board of Trustees, whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers on the respective campuses.

The trustees, the chancellor and the presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the chancellor.

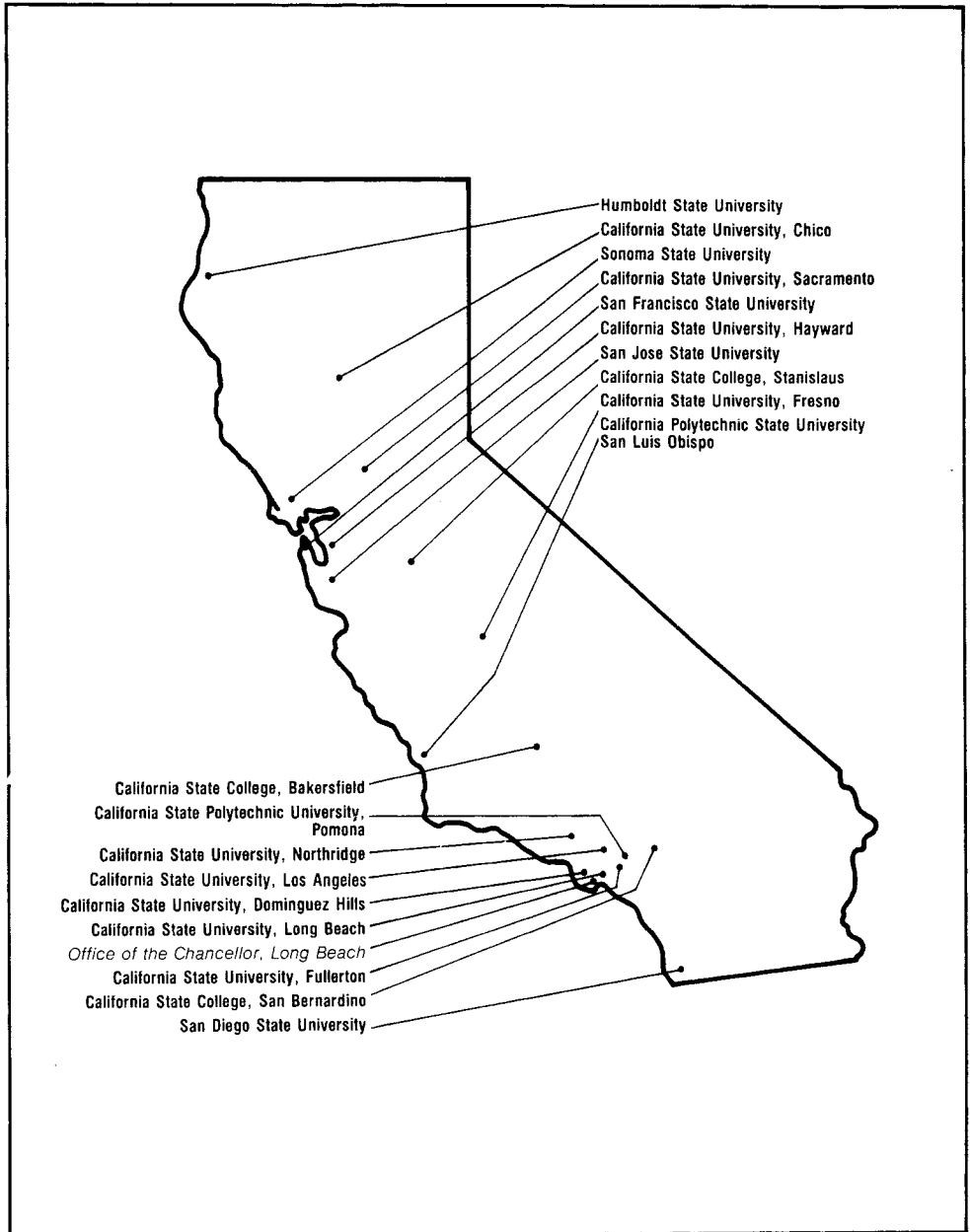
Academic excellence has been achieved by The California State University through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "general education-breadth requirements" regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,500 bachelor's and master's degree programs in some 200 subject areas. Nearly 500 of these programs are offered so that students can complete all upper-division and graduate requirements by part-time late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

The Consortium of the CSU draws on the resources of the 19 campuses to offer regional and statewide off-campus degree, certificate and credential programs to individuals who find it difficult or impossible to attend classes on a campus. In addition to Consortium programs, individual campuses also offer external degree programs.

Enrollments in fall 1983 totaled more than 315,000 students, who were taught by a faculty of 18,500. Last year the system awarded more than 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 900,000 persons have been graduated from the 19 campuses since 1960.

THE CALIFORNIA STATE UNIVERSITY



The California State University

California State College, Bakersfield

9001 Stockdale Highway
Bakersfield, California 93309
Dr. Thomas A. Arciniega, President
(805) 833-2011

California State University, Chico

1st and Normal Streets
Chico, California 95929
Dr. Robin S. Wilson, President
(916) 895-6116

California State University, Dominguez Hills

Carson, California 90747
_____, President
(213) 516-3300

California State University, Fresno

Shaw and Cedar Avenues
Fresno, California 93740
Dr. Harold M. Haak, President
(209) 294-4240

California State University, Fullerton

Fullerton, California 92634
Dr. Jewell Plummer Cobb, President
(714) 773-2011

California State University, Hayward

Hayward, California 94542
Dr. Ellis E. McCune, President
(415) 881-3000

Humboldt State University

Arcata, California 95521
Dr. Alistair W. McCrone, President
(707) 826-3011

California State University, Long Beach

1250 Bellflower Boulevard
Long Beach, California 90840
Dr. Stephen Horn, President
(213) 498-4111

California State University, Los Angeles

5151 State University Drive
Los Angeles, California 90032
Dr. James M. Rosser, President
(213) 224-0111

California State University, Northridge

18111 Nordhoff Street
Northridge, California 91330
Dr. James W. Cleary, President
(818) 885-1200

California State Polytechnic University, Pomona

3801 West Temple Avenue
Pomona, California 91768
Dr. Hugh O. LaBounty, Jr., President
(714) 598-4592

California State University, Sacramento

6000 J Street
Sacramento, California 95819
Dr. Donald R. Gerth, President
(916) 454-6011

California State College,

San Bernardino

5500 State College Parkway
San Bernardino, California 92407
Dr. Anthony H. Evans, President
(714) 887-7201

San Diego State University

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San Diego, California 92182
Dr. Thomas B. Day, President
(619) 265-5000

Imperial Valley Campus

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Callexico, California 92231
(619) 357-3721

San Francisco State University

1600 Holloway Avenue
San Francisco, California 94132
Dr. Chia-Wei Woo, President
(415) 469-2141

San Jose State University

One Washington Square
San Jose, California 95192
Dr. Gail Fullerton, President
(408) 277-2000

California Polytechnic State University, San Luis Obispo

San Luis Obispo, California 93407
Dr. Warren J. Baker, President
(805) 546-0111

Sonoma State University

1801 East Cotati Avenue
Rohnert Park, California 94928
Dr. David W. Benson, President
(707) 664-2880

California State College, Stanislaus

801 West Monte Vista Avenue
Turlock, California 95380
Dr. A. Walter Olson, President
(209) 667-3122

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State Capitol, Sacramento 95814

Willie L. Brown, Jr.

Speaker of the Assembly

State Capitol, Sacramento 95814

Louis "Bill" Honig

Superintendent of Public Instruction

721 Capitol Mall, Sacramento 95814

Dr. W. Ann Reynolds

Chancellor of The California State

University

400 Golden Shore, Long Beach 90802

APPOINTED TRUSTEES

Appointments are for a term of eight years, except for a student trustee, alumni trustee and faculty trustee whose terms are for two years. Terms expire in the year in parentheses. Names are listed in order of appointment to the Board.

Dr. Claudia H. Hampton (1986)

4157 Sutro Ave., Los Angeles 90008

Willie J. Stennis (1991)

Golden Bird, Inc.

3947 Landmark, Culver City 90230

John F. O'Connell (1984)

21 Tamal Vista Blvd., Suite 109, Corte Madera
94925

Michael R. Peevey (1985)

Southern California Edison Co.

P.O. Box 800, Rosemead 91770

John F. Crowley (1985)

San Francisco Labor Council

1855 Folsom St., 5th Floor, San Francisco 94103

Ms. Wallace Albertson (1986)

1618 Sunset Plaza Dr., Los Angeles 90069

Donald G. Livingston (1987)

Carter Hawley Hale Stores, Inc.

550 S. Flower St., 11th Floor, Los Angeles 90071

Ms. Celia J. Ballesteros (1987)

5301 B St., Suite 2001, San Diego 92101

Ms. Lynne Wasserman (1988)

Levine and Leonard

415 N. Camden Dr., Beverly Hills 90210

George M. Marcus (1989)

Marcus & Millichap, Inc.

2626 Hanover St., Palo Alto 94304

Dixon R. Harwin (1990)

Alwin Management Co., Inc.

9300 Wilshire Blvd., Beverly Hills 90212

Thomas J. Bernard (1989)

Investors Bancor

P.O. Box 8210, Orange 92668

Roland E. Arnall (1990)

Chairman of the Board

Long Beach Savings and Loan

11878 La Grange, Los Angeles 90025

Daniel J. Bronfman (1984)

2545 Beverly Ave., Apt. C, Santa Monica 90405

Roy T. Brophy (1991)

Gannon/Brophy Organization

3040 Explorer Dr., Suite 11, Sacramento 95827

Dr. Robert D. Kully (1985)

*Professor, Department of Communication
Studies*

California State University, Los Angeles

5151 State University Dr., Los Angeles 90032

Dr. Dale B. Ride (1992)

Santa Monica Community College

1900 Pico Blvd., Santa Monica 90405

Tom C. Stickel (1992)

T.C.S. Financial, Inc.

3878 Old Town Ave., Suite 202, San Diego
92110

OFFICERS OF THE TRUSTEES

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Chairman: Ms. Albertson

Vice Chair: Mr. Stennis

Secretary-Treasurer: Dr. Reynolds

OFFICE OF THE CHANCELLOR
THE CALIFORNIA STATE UNIVERSITY

400 Golden Shore, Long Beach 90802
(213) 590-5506

Dr. W. Ann Reynolds
Dr. William E. Vandament
Dr. Herbert L. Carter
D. Dale Hanner
Dr. Caesar J. Naples
Mayer Chapman

Chancellor
Provost and Vice Chancellor, Academic Affairs
Vice Chancellor, Administration
Vice Chancellor, Business Affairs
Vice Chancellor, Faculty and Staff Relations
Vice Chancellor and General Counsel

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Redlands

Mrs. Virginia Brown
Riverside

Mrs. Luella M. Cohen (Theodore M.)
San Bernardino
Chair of the Board

Mrs. Mary Curtin
Riverside

Col. Robert Custer
San Bernardino

Clarence R. Goodwin
San Bernardino

Mrs. Gloria Macias Harrison
Colton

Medley Jeansonne
Indio

Dr. Claude Noel
Apple Valley

Sister Ann Muckerman
San Bernardino

Richard Padilla
Barstow

Dr. Wayne Scott
San Bernardino

Roberto Velasquez
Rancho Cucamonga

CALIFORNIA STATE COLLEGE, SAN BERNARDINO

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Vice President for Academic Affairs: Gerald M. Scherba, Ph.D.

Associate Vice President, Academic Personnel: J. Cordell Robinson, Ph.D.

Associate Vice President, Academic Resources:

Manager, Computer Center: Frank Slaton, M.S.

Associate Vice President, Academic Programs: Jerrold E. Pritchard, D.M.A.

Associate Dean, Academic Programs: H. Stephen Prouty, M.S.

Associate Dean, Graduate Programs:

Associate Dean, Undergraduate Programs:

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Director of Institutional Research: Robert A. Schwabe, Ph.D.

Dean of Extended Education: Lee Porter, Ed.D.

Dean, School of Business and Public Administration: H. Arthur Hoverland, Ph.D.

Dean, School of Education: Ernest F. Garcia, Ph.D.

Dean, School of Humanities: Irving H. Buchen, Ph.D.

Dean, School of Natural Sciences: James D. Crum, Ph.D.

Dean, School of Social and Behavioral Sciences: Ward M. McAfee, Ph.D.

Director of Library: Arthur Nelson, M.A.L.S.

Associate Library Director: Marty Bloomberg, M.A.

Head, Material Services: Johnnie Ann Ralph, M.L.S.

Head, Patron Services: John Tibbals, M.S.L.S.

Director of Sponsored Programs: Samuel S. Kushner, M.A.

Director of Administrative Affairs: James H. Urata, M.A.

Director of Plant Operations: James H. Urata, M.A.

Director of Public Safety: Arthur M. Butler, B.A.

Executive Dean for College Relations:

Director of Alumni Affairs: Richard Bennecke, M.A.

Director of Public Affairs: Edna Steinman, M.A.

Dean of Students: Peter A. Wilson, Ph.D.

Associate Dean, Enrollment Services: Don Kajcienski, M.A.

Director, Admissions: Cheryl Weese, M.B.A.

Director, Financial Aid: Ted Krug, M.A.

Registrar: Jo Ann Von Wald, B.A.

Relations with Schools:

14 / Administration

Associate Dean, Counseling and Health Services: John M. Hatton, Ph.D.

Director, Career Planning and Placement: Paul Esposito, Ed.D.

Director, Counseling and Testing Center: John M. Hatton, Ph.D.

Director, Student Health Service: James R. Savage, M.D.

Advisor, International Students: Donald C. Woods, Ph.D.

Associate Dean, Educational Support Services: Tom M. Rivera, Ed.D.

Director, Educational Opportunity Program Supportive Services: Walter Hawkins, M.S.W.

Director, Learning Center:

Director, Services to Students with Disabilities: L. Theron Pace, Ph.D.

Director, Student Affirmative Action: Gilbert Sanchez, Ed.D.

Director, Student Assistance in Learning: M. Jean Peacock, M.A.

Director, Upward Bound: George Martinez, M.S.

Associate Dean, Student Life: Doyle J. Stansel, M.A.

Director, Activities: M. Jeanne Hogenson, M.A.

Director/Teacher, Children's Center: Pamela I. Dortch, M.A.

Director, Housing: Doyle J. Stansel, M.A.

Coordinator, Student Union:

Business Manager: Leonard B. Farwell, M.B.A.

Accounting Officer: Donald E. Saponetti, B.A.

Supervisor, Accounting Operations: Patricia A. Quanstrom

Supervisor, Payroll: Patricia I. Stumpf

Director, Budget Planning and Administration: C. D. McKenzie, M.B.A.

Budget Administration Officer: Jim G. Martinez, B.A.

Personnel Officer: Sandra Lyn Jensen, M.A.

Support Services Officer: Janice L. Lemmond, B.A.

Supervisor, Duplicating Center: James Gooch, A.A.

Supervisor, Purchasing: Kathy Shepard, M.A.

Supervisor, Shipping, Receiving and Mail: Michael Arredondo





SAN BERNARDINO: LOCATION AND HISTORY

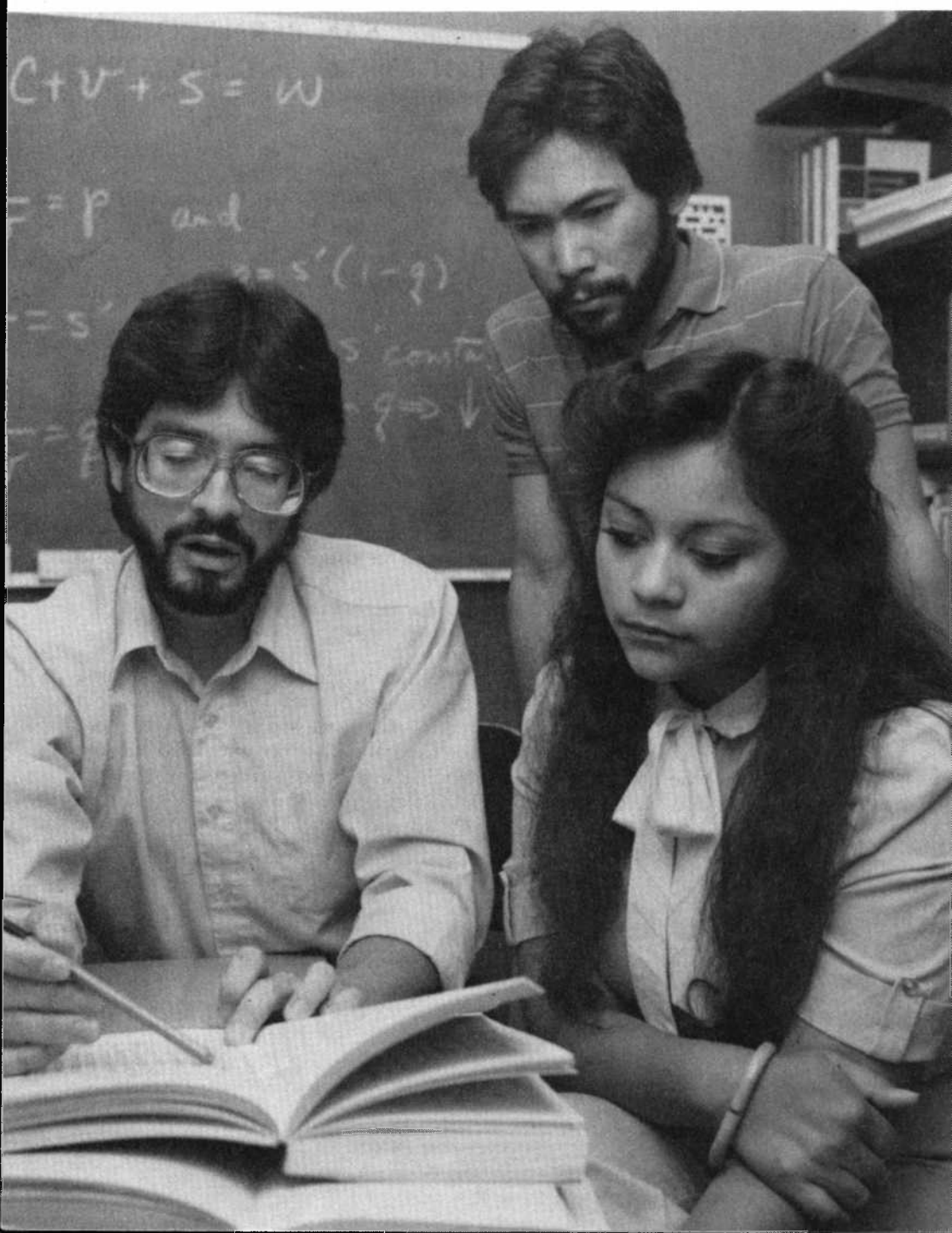
The city of San Bernardino is situated at the foot of the San Bernardino Mountains, which form the northeastern boundary of the San Gabriel Valley. The valley's western terminus, 60 miles away, is the Los Angeles basin and the beaches of the Pacific Ocean.

In earlier times the San Bernardino area was the home of Serrano, Luiseno and Cahuilla Indians. The first pioneers from Mexico settled in the San Gabriel Valley in the 1770's. Mission San Gabriel was founded by Fr. Junipero Serra in 1771, ten years before pueblo Los Angeles was established. The mission built a fortified asistencia near modern San Bernardino in 1819, but this was abandoned in 1834 when newly independent Mexico secularized the missions.

In 1842 the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

Inland Southern California

Historic San Bernardino Valley is part of inland southern California, an area encompassing all of San Bernardino and Riverside counties. The College is within the Riverside-San Bernardino-Ontario metropolitan area and serves as well more distant locations in the two counties—the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.



THE COLLEGE ACADEMIC PROGRAM

Now completing its second decade, California State College, San Bernardino continues its development in new directions.

The College opened in 1965, offering six degree programs to approximately 300 students and focusing on the liberal arts. Currently the curriculum has been expanded to 38 baccalaureate degree programs, 14 teaching credential fields and various options within nine master's degree programs. Current enrollment exceeds 5,000.

While continuing to emphasize the liberal arts, the College is now implementing a number of career-oriented programs, both at the undergraduate and at the graduate levels.

Academic Plan

The College has adopted an academic calendar consisting of three 11-week terms which differs from the conventional quarter system in that full-time students normally enroll in only three courses per term. Under the three/three plan, each course normally meets four hours per week (laboratory and studio courses are exceptions). The student thus is in class 12 hours per week or the equivalent, instead of the traditional 15. Such reduction of classroom time is balanced by increased assignment of written work and greater emphasis on independent study and independent laboratory work. As a result, student effort is still expected to be a minimum of 15 hours per week per class. This academic program is designed to afford the student the opportunity to carry on studies in depth and in breadth, to develop abilities to work independently and to achieve intellectual growth.

Class Size

A distinctive feature of the San Bernardino plan is that the maximum enrollment in most classes (nearly 90 percent) is limited to 20. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the 20-student class as the norm requires that a small proportion of courses be offered in a large-lecture format (maximum enrollment of 250) or in an intermediate size (enrollment of 50 to 100).

Among lower-division general education courses, those in the basic skills area, in foreign language and in philosophy are offered mostly through small classes, while those in other areas employ intermediate or large-lecture classes. Upper-division general education courses are also offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required or elective courses, but the majority of departmental offerings are in small

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classes. The typical laboratory section has a maximum enrollment of 24, sometimes less.

Faculty Office Hours

In addition to meeting with students during designated class hours, faculty members hold regularly scheduled office hours, which are posted outside their offices. A student who is unable to see a faculty member during class or the posted office hours may arrange an appointment by contacting the appropriate department office.

Accreditation

The California State College, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs of the College are approved by the California State Board of Education. The Chemistry Department is accredited by the American Chemical Society. The baccalaureate program in nursing is accredited by the National League for Nursing. California State College, San Bernardino is an accredited institutional member of the National Association of Schools of Art and Design.

Phi Kappa Phi

The College has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements.

Baccalaureate Degree Programs

In the 1984-85 academic year, the College will offer bachelor's degree programs in the following fields (majors):

School of Business and Public Administration	
Administration	B.A./B.S.
School of Humanities	
Art	B.A.
Communication	B.A.
English	B.A.
French	B.A.
Humanities	B.A.
Music	B.A.
Philosophy	B.A.
Spanish	B.A.
Theatre Arts	B.A.
School of Natural Sciences	
Biology	B.A./B.S.
Chemistry	B.A./B.S.

Computer Science	B.S.
Health Science	B.S.
Mathematics	B.A./B.S.
Nursing	B.S.
Physical Education	B.S.
Physics	B.A./B.S.
School of Social and Behavioral Sciences	
Anthropology	B.A.
Criminal Justice	B.A.
Economics	B.A.
Geography	B.A.
History	B.A.
Political Science	B.A.
Psychology	B.A.
Social Sciences	B.A.
Sociology	B.A.
Interdisciplinary Programs	
American Studies	B.A.
Environmental Studies	B.A.
Human Development	B.A.
Human Services	B.A.
Liberal Studies	B.A.
Special Major	B.A.
Vocational Education	B.V.E.

Graduate Programs

In the 1984–85 academic year, the College will offer master's degree programs in the following fields:

Business Administration, M.B.A.

Public Administration, M.P.A.

Biology, M.S.

Criminal Justice, M.A.

Education, M.A.

(with options in elementary education, secondary education, history and English for secondary teachers, reading, counselor education, school administration, special education, bilingual/cross-cultural education and vocational education)

English Composition, M.A.

Psychology, M.A.

Psychology, M.S. (with concentration in clinical/counseling psychology)

Special Major, M.A.

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Special Courses

More specific information on the special courses described below can be obtained from the Office of Academic Programs or the appropriate schools and departments.

Comprehensive Examinations. Students now have limited opportunities to spend a full term out of the classroom while preparing for comprehensive examinations that serve as alternatives to regular instruction. Comprehensive examinations are currently available in psychology, sociology and in upper-division general education (see Interdisciplinary Studies 386, 387 and 388).

Cooperative Education. The College is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in administration, anthropology, art, criminal justice, English, geography, history, political science, psychology and sociology.

Words and Ideas. In an attempt to integrate the teaching of composition and logical reasoning, the College offers an optional two-term, 10-unit course called Words and Ideas (Interdisciplinary Studies 101A and B). Students register in this course for two successive terms and receive general education credit in the area of basic studies (equivalent to English 101 and Philosophy 105).

Self-Paced Courses. An alternative mode of instruction, being developed for a few courses, enables students to set their own learning pace. Some of these, such as French 101-102-103, involve some classroom work. Others—such as Administration 303, 304, 306; Anthropology 335; French 420; History 540; Psychology 385 and Social Sciences 215—are conducted on an independent study basis made possible through the use of study guides, video tapes and other instructional resources.

Facilities

The academic program is complemented by an excellent physical plant, consisting of 23 air-conditioned buildings. In addition to the facilities for course work in the arts, letters and sciences, the College has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional center for counseling psychology, an electronic music studio, glass blowing facilities in the Art Department and a scanning electron microscope.

The College Library

The Pfau Library consists of a general collection of 400,000 books and bound periodicals. The Library subscribes to more than 2500 periodicals and newspapers in addition to other serial publications. The book collection is further augmented by recordings, musical scores, maps, microformat materials, pamphlets, curriculum materials and data base service. As a depository for California state documents, the Library regularly receives state publications. Reciprocal borrowing agreements with other area libraries further enhance the availability of material.

All materials are easily accessible to students. An open-shelf arrangement of the collection gives users convenient access to Library materials.

The Library occupies the first, third and fourth floors and parts of the basement and fifth floors of the Pfau Library Building in the center of the campus. Special facilities include individual study cubicles and carrels, group study rooms, typing rooms, listening facilities, photo-duplicating service, microform rooms, a map room and seating for about 700 users. Individual or group instruction in Library usage is available upon request.

The Computer Center

The Computer Center provides access to three computer systems which allow students a wide range of computing experiences. Each year, approximately 30 percent of the student body utilizes these computer systems for class assignments in programming, problem solving, simulations and computer-assisted instruction.

Generally students interface with the computers at two Terminal Labs, located in the basement of the Library. Terminals and printers are available in the lab along with consultants to assist student users. Adjacent to the Terminal Labs are three Microcomputer Labs which provide access to more than 30 Apple microcomputers. Other terminals and microcomputers are located in various departments throughout the campus.

The computer systems available on campus are a Control Data Corporation (CDC) CYBER 170 model 720 for timesharing and batch processing and a Digital Equipment Corporation PDP 11/45 timesharing minicomputer. Access to a centrally located computer system, a CDC CYBER 170 model 760, is facilitated through communication links between the campus and the State University Data Center in Los Angeles. Access to any of these systems for class or special projects is available at no expense to all students, both graduates and undergraduates.

The Learning Center

The Learning Center provides individual and group tutoring in most academic areas. Seminars that are offered during each academic year focus on topics such as term paper preparation, college study and survival skills, pre-statistics, writing awareness and improvement, and intermediate writing. In conjunction with SAIL, a two-unit college study skills course is taught. Large lecture courses are taped, with the tapes maintained in the center. Cassette and video tapes of specific classes and foreign languages also are available to support classroom instruction.

Scheduling of Classes

Most five-unit courses meet for 200 minutes per week. Three basic plans are used in scheduling classes: three meetings per week (usually Monday-Wednesday-Friday), two meetings per week or one meeting. Principal exceptions occur among laboratory, activity and studio courses and courses which carry less than five units of credit.

The two-period, two-day-per-week format is utilized for Tuesday-Thursday classes and most late afternoon and evening courses; the single four-hour period format has been found most appropriate for certain evening and weekend classes. The College attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.

International Programs

The California State University (CSU) International Programs offers students the opportunity to continue their studies overseas for a full academic year while they remain enrolled at their home CSU campus. The International Programs' primary purposes are to enable selected students to gain a firsthand understanding of other areas of the world and to advance their knowledge and skills within specific academic disciplines in pursuit of established degree objectives.

A wide variety of academic majors may be accommodated by the 25 foreign universities cooperating with the International Programs in 15 countries around the globe. The affiliated institutions are: the University of Sao Paulo (Brazil); the Universities of the Province of Quebec (Canada); the University of Copenhagen (through Denmark's International Student Committee's Study Division); the University of Provence (France); the Universities of Hamburg, Heidelberg, and Tübingen (Germany); the Hebrew University of Jerusalem (Israel); the University of Florence (Italy); Waseda University (Japan); the Iberoamericana University (Mexico); Massey University and Lincoln University College (New Zealand); the Catholic University of Lima (Peru); National Chengchi University (Republic of China/Taiwan); the Universities of Granada and Madrid (Spain); the University of Uppsala (Sweden); and Bradford and Bristol Universities (the United Kingdom). Information on academic course offerings available at these locations may be found in the International Programs Bulletin which may be obtained from the International Programs representative on campus.

Eligibility for application is limited to those students who will have upper-division or graduate standing at a CSU campus by September 1985, who possess a cumulative grade-point average of 2.75 for all college-level work completed at the time of application (some programs require a 3.0 cumulative grade-point average), and who will have completed required language study where applicable. Selection is competitive and is based on home-campus recommendations and the applicant's academic record. Final selection is made by the Office of International Programs in consultation with a statewide faculty selection committee.

The International Programs supports all tuition and administrative costs overseas for each of its participants to the same extent that such funds would be expended to support similar costs in California. Students assume responsibility for all personal costs, such as transportation, room and board, and living expenses, as well as for home campus fees. Because they remain enrolled at their home CSU campus while studying overseas, International Programs students earn full resident credit for all academic work completed while abroad and remain eligible to receive any form of financial aid (other than work-study) for which they can individually qualify.

Information and application materials may be obtained from Dr. Mireille Rydell or Dr. Richard H. Rowland on campus or by writing to The California State University International Programs, 400 Golden Shore, Suite 300, Long Beach, California 90802. Applications for the 1985-86 academic year overseas must be submitted by February 1, 1985.

College Foundation

The Foundation of the California State College, San Bernardino, a California nonprofit corporation, was established in 1962 for the purpose of promoting and assisting the educational services of the College. The Foundation Board of Trustees establishes policies for the administration of scholarship and loan funds, federal research grants and the operations of the Commons and Bookstore.

The CSUC Desert Studies Center

The California Desert Studies Consortium operates a Desert Studies Center in the Mojave Desert near Baker, California. The consortium consists of seven campuses of The California State University system, including California State College, San Bernardino. The center offers lodging and laboratory/storage space in support of desert field-oriented courses in biology, geology, geography and anthropology. In addition to providing support for field trips in various disciplines, the center provides a site for independent study courses and research of desert phenomena by individual students, both undergraduates and graduates. Complete details and arrangements for use of the Desert Studies Center are available through the School of Natural Sciences.

Campus Tours

Tours of the Cal State campus are available throughout the year, for individuals or groups. Student visitors interested in obtaining first-hand information about the College's programs or classes may arrange to meet with faculty or administrators. Individuals or small groups also may sit in on class lectures or visit the residence halls, if sufficient prior notice is given for arrangements to be made. Requests should be made through the Relations with Schools Office.



STUDENT LIFE

Housing

Serrano Village, the College's on-campus housing facility, is a focal point of campus life for residential students. Social as well as educational activities are organized by the Village residents with the assistance of the housing staff, making the Village a center for living and learning with other students.

The Village is composed of eight attractive redwood houses. Each house has a main lounge, recreation room, kitchenette, laundry-workroom, sun deck and patio. Both single and double rooms are available. Rooms are arranged in suites so that no more than 10 students share a living room and bathroom facilities.

The Village has both indoor and outdoor recreational facilities. The indoor area contains pool tables, a ping-pong table, mail boxes and a conversational area. The outdoor recreational area contains a barbeque, patio, volleyball court, paddle tennis court, sun deck and a swimming pool.

Living on campus is reasonably priced when compared to the rapidly rising costs of commuting and has the added advantage of being near the College Library and other facilities. The rates for living in the Village include meals served at the nearby College Commons. The cost of a double room and meals is expected to be approximately \$2750 per year in 1984-85. Several convenient payment options are available. Serrano Village does not provide family housing or on-campus apartments for married students.

Any student needing information about housing, either on-campus or off-campus, should contact the Housing Office.

Activities

The diverse interests and lifestyles of students are reflected in numerous activities sponsored by the College and Associated Students. These programs include film series, dances, drama productions, choral concerts, quarterly festivals, musical concerts, guest lecturers and small group socials.

The College and the Associated Students encourage and aid formation of organizations which enhance the educational opportunities of students. These organizations involve students, faculty and staff working together in professional, recreational, educational, service, religious and cultural activities. College-recognized groups have full use of College facilities in planning their programs.

All students are members of the Associated Students, which is governed by an elected Board of Directors. AS sponsors a book co-op, check-cashing service, emergency loan program, legal aid and other student-initiated services. AS also assists the Children's Center, campus newspaper and many College-wide programs.

"Escape" is the College and A.S. sponsored outdoor leisure program. Students have the opportunity to discover and learn about California's outdoors while

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participating in recreational activities. An informal atmosphere is created which enables students to make new acquaintances, exchange ideas and become more socially aware. Past "Escape" activities have included backpacking, skiing, sailing, canoeing, and trips to amusement parks, sports events and theatrical productions.

Student Union

The Student Union is designed to provide comfort, a relaxing environment and recreation for students of the College. The Union includes a spacious lounge area, a convenient snack bar, the Pub with its large-screen television, pool, electronic games, and an outdoor beer garden. Offices for the Associated Students, the campus newspaper, meeting rooms for various organizations and a large multipurpose room used for dances, lectures and movies are part of the facility.

Intercollegiate Athletics

An intercollegiate athletic program will begin during the 1984-85 academic year. The program is designed to be an NCAA, Division III. Eight sports will be introduced in the first year. They are: cross country, basketball and tennis, for both women and men; volleyball for women and soccer for men.

Additional sports planned in the coming years are golf, swimming, water polo, baseball, track and field, or wrestling.

School colors are blue and brown, and the mascot is the coyote.

Intramurals

The intramural program provides an opportunity for students, faculty and staff to participate in organized recreational sports activity.

The program is "fun-oriented" and skill, while helpful, is not a prerequisite.

A comprehensive schedule includes at least ten different events each quarter, ranging from team sports to one-day individual activities. Some of the more popular programs are basketball, canoe races, flag football, floor hockey, skiing, softball, volleyball and the annual turkey trot. Additional events will be offered to meet varying student interests.

Funding and insurance may be provided, on a limited basis, for extramural athletic activities such as volleyball, soccer, softball, floor hockey and basketball.

Specific information about the program is available at the Intramural Office in the Physical Education Building, Room 124.

Recreation

The physical education facilities, playing courts and swimming pool are made available for recreational enjoyment. All students are encouraged to make use of the gymnasium, courts, activity fields, swimming pool and weight room as long as there is no conflict with classes or other scheduled College events. Also recreational equipment for use on-campus and certain items for off-campus use can be checked out from the Department of Physical Education and Recreation, subject to College regulations.

Since the campus is located only about 45 minutes from mountains, beaches and desert, students have a unique opportunity to explore a variety of recreational activities. Because of student interest in skiing, the Associated Students provides equipment which may be rented.

Questions relating to recreational use of campus facilities or scheduling of facilities for special club or campus organizational use should be directed to the Department of Physical Education and Recreation Office.

Career Planning and Placement

Services of the Career Planning and Placement Center are available to all students of the College. Services include career exploration seminars and materials, advisement on employment and salary trends, counseling about personal satisfaction in career employment, vocational testing service and placement services for graduating seniors, graduate students and alumni. In addition, the Placement Center assists enrolled students who are seeking part-time and vacation employment.

The Placement Center serves as a repository for career placement files for the College's qualified degree and credential candidates who register for placement service. There is no placement services charge for current students. A nominal fee is charged to alumni. The fee begins one calendar year after the end of the registrant's student status.

Career Placement Information

The campus may furnish, upon request, information concerning the subsequent employment of students who graduate from programs or courses of study which have the purpose of preparing students for a particular career field. This information includes data concerning average starting salary and the percentage of previously enrolled students who obtained employment. The information provided may include data collected from either graduates of this College or graduates of all campuses in The California State University. Copies of the published information are available in the Career Planning and Placement Center and the Relations with Schools Office.

Financial Aid

The Financial Aid Office administers a variety of programs to assist qualified students. Sources of aid include the federally sponsored Pell and Supplemental Educational Opportunity Grants, National Direct Student Loans and the college work-study program. California Guaranteed Student Loans and California loans to assist students are also available. Short-term loans are available for financial crises which require funds rapidly. The office also administers State University Grants and Educational Opportunity Program grants. Nursing student loans and scholarships are available to students enrolled in that program.

For a student interested in working part-time, on or off campus, assistance in obtaining a job is available through the Placement Office.

All applications for scholarships and financial aid must be completed and in the Financial Aid Office by March 1. Late applications are accepted after March 1 and throughout the school year if funds are available. Applicants are required

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to submit a copy of the student's and/or parent's most recent federal income tax return and the financial need analysis obtained through the College Scholarship Service. Necessary forms can be obtained from high schools, community colleges or the College.

A full description of the College's financial aid programs is available in the free financial aid brochure.

Scholarships

The scholarships listed below are awarded to new and continuing students in accordance with the terms of the gifts. No special application need be made for these awards unless otherwise indicated. Generally, students must possess a minimum grade-point average of 3.0 (B). Ordinarily, students applying for scholarships are considered for any for which they may be eligible.

The California Parent-Teachers Association (PTA) provides a \$350 scholarship to upper-division or graduate students entering the field of teaching. The student must be a citizen, of good character, possess a superior academic record, need financial assistance and make a commitment to teach in California for one year.

The California Retired Teachers Association provides a \$500 scholarship to a senior or graduate student entering the field of teaching. The student is selected on the basis of financial need, academic achievement and school and community activities.

The California State College, San Bernardino Alumni Association provides scholarships of varying amounts to students exhibiting financial need, academic superiority and community involvement.

The California State College, San Bernardino Associates provides two scholarships totalling \$800 to upper-division students who possess a superior academic record, financial need and a record of good citizenship.

The California State College, San Bernardino Music Department provides 25 merit scholarships totaling \$1650 to students who have demonstrated above-average proficiency with a musical instrument and have performed with a related College organization.

The California State College, San Bernardino Theatre Arts Department provides 10 scholarships totaling \$1400 to students who have demonstrated excellence in the field of theatre arts.

The Foundation for California State College, San Bernardino provides approximately \$2500 in scholarships to continuing students with superior academic records and financial need. The Faculty and Staff Memorial Scholarship Fund, managed by the Foundation, contains tributes to former faculty including Dr. Mary Cisar (died 1971), Dr. Walter Zoecklein (1975), Dr. Florence Mote (1977), Dr. Neville Spencer (1977), Dr. James Finley (1980) Dr. William Gean (1980), Dr. Alfred Egge (1982), Dr. Marvin Frost (1983) and Dr. Robert R. Roberts (1984).

The Leslie I. Harris/Bennet Meyers Memorial Fund provides two four-year scholarships of \$1,000 per year to high school graduates from the San Bernardino area with outstanding academic records (3.5 grade-point average) and involvement in school activities.

Alfred F. and Chella D. Moore Scholarship Fund provides approximately \$23,000 in scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). The amount of each award is \$1200; some awards may automatically be renewed for an additional three years for a total of \$4800. Special application is required for renewal.

The Alan Pattee Scholarship is provided to the children of California law enforcement personnel or firemen who are killed in the performance of official duties within the State of California. The amount of the scholarship is equal to the cost of tuition and mandatory registration fees.

The Riverside Foundation/Leon S. Heseman Scholarship Fund provides \$7200 for scholarships to undergraduate students with superior academic records, financial need and records of good citizenship. Preference is given to residents of Riverside and San Bernardino counties. Typically, scholarships average \$650.

The Nancy E. Smith Scholarship is provided to a full-time student majoring in public administration or political science who intends to pursue a career in public service. The amount of the award is \$400.

The Union Pacific Foundation provides a \$500 scholarship to a graduate student at the College.

The William H. Wilson Scholarship is an annual scholarship provided to a full-time student at California State College, San Bernardino, preferably from the immediate San Bernardino area. Applicants must demonstrate economic need. The scholarship will average \$500. Ordinarily, the scholarship will be given to a different student each year, but under special, extenuating circumstances, it may be renewed.

Many students qualify for assistance through other programs not administered by the College. They include veterans benefits, dependents of disabled or deceased veterans, Social Security Administration, State Department of Rehabilitation, Bureau of Indian Affairs and other public assistance agencies.

Cal Grant A/B and Graduate Fellowships. Students apply directly to the California Student Aid Commission for these state-sponsored awards which cover the expense of required fees. Application blanks and full information on these awards are available at high schools, community colleges and California State College, San Bernardino.

A table summarizing some of the financial aid resources follows:

Financial Aid Chart

<i>Types of aid</i>	<i>Who can help</i>	<i>Determination of eligibility</i>	<i>Repayment requirement</i>
A. Scholarships Local scholarships College scholarships Nursing program scholarships	High school or college counselor College financial aid officer College financial aid officer	GPA, need GPA or GPA and need need	no no no
B. Grants Pell Grant Supplemental Educational Opportunity Grant Cal Grant A/B, Fellowships Educational Opportunity Program Grant State University Grant	High school or college counselor College financial aid officer High school or college counselor College E.O.P. director or aid officer	need need GPA, need need need	no no no no no
C. Loans National Direct Student Loan California Insured Student Loan Nursing program loans California loans to assist students	College financial aid officer College financial aid officer College financial aid officer College financial aid officer	need need need enrollment	yes yes yes yes
D. Work-study College work-study program	College financial aid officer	need	no
E. On and off-campus part-time jobs	College placement advisors	—	—

Other aid-related programs are available through the Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies.

Counseling and Testing

The Counseling and Testing Center aids students in developing their personal resources and in making full use of the opportunities for growth during their college years. The services of the Center are available to all students in need of professional psychological assistance in educational, vocational or personal matters.

All psychological counseling is completely confidential. Information about a student's use of the Center is not released to anyone without the written consent of the student.

Services of the center are offered to students at no charge.

The center also administers tests applicable to admission, academic placement and academic achievement, including the American College Testing program (ACT) and graduate record examinations. There is a charge for tests but not for the services of the center in giving them. Information and applications for other nationally administered tests used for college or graduate school entrance also are available from the center.

New Student Services

New Student Services has been established to help incoming freshmen and transfer students adjust to all the new demands—as well as the new opportunities—of life at the College. The office sponsors orientation programs and special activities for new students. It also publishes newsletters designed to communicate College news of special importance to students such as academic deadlines, social and cultural events and workshops.

More generally, New Student Services is the “one-stop shopping place” for new students at the College. Students with questions about any part of their college experience may come to the office for counsel and appropriate referral.

International Students

The office of the international student advisor is the primary contact for foreign students including new immigrant and permanent resident students who are nationals of other countries. The office aids students in becoming accustomed to living and studying at the College. It provides information about academic procedures, such as special admission requirements for students from abroad, (see Admission: International Students) and governmental and legal aspects of their stay (for example, issuance of form I-20), restrictions on employment and the academic requirements that must be met to retain student visa.

Counseling is available for personal problems such as adjusting to living in a new cultural environment and working in a new educational setting as well as the types of personal problems encountered by all students. The international student advisor's office is in the Counseling and Testing Center.

Educational Opportunity Program

The Educational Opportunity Program is an admissions and supportive services program designed to assist students who meet specific income guidelines and demonstrate the potential to obtain a baccalaureate degree offered by the College. The services are available for a maximum of five years.

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Through the Educational Opportunity Program, the student receives help in admissions, registration, financial aid, housing, curriculum planning, tutoring, counseling, job and graduate school placement and other supportive services, depending upon individual needs.

In addition, Education 25 is offered to all EOP students. This orientation course deals with the topic of "How to succeed in the first year of college."

SAIL Program

The Student Assistance in Learning Program (SAIL) exists to aid students who are in need of improving their skills in one or all of the following areas: mathematics, reading, writing and study habits. In addition to providing personal and academic (probation) counseling, SAIL counselors facilitate a series of mini-workshops which constitute the lab sessions of Education 37, a two-unit course offered in conjunction with the Learning Center.

Student Affirmative Action

The Student Affirmative Action (SAA) Program is designed to provide encouragement, assistance and information to high school and community college students regarding opportunities in higher education. The primary objective of these special outreach efforts is to increase the number of students coming from under-represented ethnic groups and to provide them with educational support services once admitted. Recruitment is focused on students who are likely to be regularly admissible to four-year colleges, but who have not necessarily considered a college education. Referral services are also provided to students who need special admissions. Special efforts also are made to involve parents. Campus tours and home visitations may be arranged upon request.

Upward Bound Program

The Upward Bound Program is a college preparatory program which provides low income, first generation, college-bound students, demonstrating a potential to succeed in college, with academic assistance and career guidance in anticipation of their enrollment in a four-year college or university.

Selected students participate in a college-based, year-long academic program which emphasizes basic skills through classroom instruction and individualized tutoring. In addition, the students are involved in special enrichment activities such as career workshops, cultural events and a variety of recreational/social activities.

A unique feature of the Upward Bound Program is the summer residential program wherein students are housed in Serrano Village, the college's on-campus housing facility, for an intensive five-week academic program designed to simulate a total college environment.

Student Health Center

The Student Health Center provides all services normally administered in a physician's office including minor surgery, dermatology, basic emergency care,

family planning and gynecological care. A low-cost supplementary insurance plan is made available to all regularly enrolled students through a private insurance company. This plan is necessary to cover services not available at the Health Center. Students should contact the Health Center for details. The Health Center is supported by student fees paid at registration, and all regularly enrolled students are eligible for services.

Services to Students with Disabilities

The responsibility of this office is to offer aid to students who have a temporary or a permanent disability. A professional staff assists students with specialized academic support, counseling and educational programs.

Academic support services available include reader services for the vision-impaired, interpreter services for the hearing-impaired, assistance with typing, test writing and notetaking. Counseling for disability-related problems and college adjustment situations as well as specialized vocational testing and planning are provided. The staff helps to meet the educational needs of each student by arranging classroom accommodations and providing adaptive equipment. Assistance is available to make dormitory arrangements and to stimulate interest in social life at the College.

Prospective students are encouraged to contact the office to arrange appointments for admission information and campus orientation tours. The office is located in the Pfau Library, Room 107. The telephone number is (714) 887-7662 Voice/TDD.

Department of Public Safety

The Department of Public Safety (College Police) is a fully certified law enforcement agency with primary responsibility for service and protection of the college community.

All officers are empowered by law to enforce all laws of the state of California. Receiving basic and advanced training at the San Bernardino County Sheriff's Academy, the officers are professional peace officers.

The department provides a full range of services including crime prevention, criminal investigations, traffic control, patrol and plant security. Services provided to the campus community include property identification, lost and found, jumper cables and assistance to motorists locked out of their cars.

All services are provided 24 hours a day and may be obtained by dialing extension 7557 in emergencies and 7555 for all other requests.

Dean of Students

The Dean of Students Office provides general information regarding the campus and assistance with students' problems. The office can provide information concerning campus policies, procedures and regulations and can advise students on such matters. Information and counseling regarding College grievance procedures, grade appeal matters and the Family Rights and Privacy Act are available here also. A fuller statement on students' privacy rights, grade appeal and student grievance procedures appears in the Appendix.

Children's Center

A Children's Center is available to accommodate children of the college's students, faculty and staff and people of the community. The children and families must meet the eligibility criteria of the center in order to be enrolled. The center, which is operated through the College Foundation, accepts children two years (toilet trained) to 14 years. The center is open Monday through Friday during the academic school year for day and evening child care. It is closed during the summer months. The Children's Center is located behind the Student Services Building.

Further information may be obtained by calling the Children's Center at 887-7724 or the Dean of Students Office, 887-7526.

Alumni Association

All graduates of the College are eligible to join and participate in the activities of the California State College, San Bernardino Alumni Association. Also eligible are those who earn credentials through the College and members of the senior class.

The purpose of the nonprofit association is to: assist alumni in continued cultural and educational development, further the community interests of the College, establish mutually beneficial relationships between the College and its alumni, and promote the educational goals of the College. Additional information may be obtained from the Alumni Affairs Office.

The Commons

The Commons, one of the social centers of the campus, serves residential and commuter students, faculty and staff. The facility offers an attractive view of the mountains which provides a pleasant atmosphere for eating and relaxing.

Bookstore

Students are able to purchase or order books and supplies needed for classes plus magazines, records, class rings and personal items from the on-campus bookstore, owned and operated by the College Foundation. The bookstore is a nonprofit operation, with proceeds used to further the educational aims of the College.

Student Responsibility

Students at the College are subject to all federal, state and local laws as are other citizens. Of particular importance are regulations established by the State of California through its Education Code. In addition, Board of Trustees and local College regulations directly affect student life on campus. Students are responsible for their behavior on campus and are expected to comply with all policies and regulations which are posted and/or printed in College publications. Copies of all policies which affect students are available at the Dean of Students Office. The Student Conduct Code, which relates to student disciplinary matters, appears in the Appendix of this Bulletin.





ADMISSION TO THE COLLEGE

Requirements for admission to the California State College, San Bernardino are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Administrative Code. Prospective applicants who are unsure of their status under these requirements are encouraged to consult a high school or college counselor or the Admissions Office. Applications may be obtained from the admissions office at any of the campuses of The California State University or at any California high school or community college.

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire and financial aid forms. Further, applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of academic credit, suspension or expulsion (Section 41301, Article 1.1, Title 5, California Administrative Code).

Students who are admitted to the College for a given term but who do not register in that term must file a new application form and \$35 application fee when they again seek admission and must meet the then current admission requirements.

Undergraduate Application Procedures

Prospective students, applying for part-time or full-time programs of study, in day or evening classes, must file a complete application as described in the application booklet. The \$35 nonrefundable application fee should be in the form of a check or money order payable to The California State University and may not be transferred or used to apply to another term.

Undergraduate applicants need file only at their first choice campus. An alternative choice campus and major may be indicated on the application, but applicants should list as an alternative campus only that campus of The California State University that they can attend. Generally, an alternative degree major will be considered at the first choice campus before an application is redirected to an alternative choice campus. Applicants will be considered automatically at the alternative choice campus if the first choice campus cannot accommodate them.

Systemwide Impacted Programs

Impacted programs are undergraduate programs in which the number of applications received in the first month of the filing period exceeds the total spaces available, either locally (at individual campuses) or systemwide. Students must make application for an impacted program during the first month of the filing period and may file more than one application and fee for additional programs. Nonresidents, foreign or domestic, are advised that there is little

likelihood of being admitted to impacted programs. High school and community college counselors are advised before the opening of the fall filing period which programs will be impacted.

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Campuses are authorized to use a freshman applicant's ranking on the eligibility index, the transfer applicant's overall GPA, or a combination of campus-developed supplementary criteria in selecting those to be admitted. Freshmen applicants who plan to apply to an impacted program should take the ACT or SAT test at the earliest date. Test scores and grades earned in the final three years of high school may be used to determine admission to the program. The supplementary admission criteria used by the individual campuses to screen applicants appear periodically in the CSU School and College Review and are sent by the campuses to all applicants seeking admission to an impacted program.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major but may choose an alternative major either at the first choice campus or another campus.

Postbaccalaureate Application Procedures

All applicants for any type of postbaccalaureate status (for example, master's degrees, credentials and courses for professional growth) must file a complete application within the appropriate filing period. Candidates for second baccalaureate degrees should apply as undergraduate degree applicants. A complete application for postbaccalaureate status includes all of the materials required for undergraduate applicants plus the supplementary graduate admissions application. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to submit an application and the \$35 nonrefundable fee.

Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternative campuses or later changes of campus choice will be minimal. If a postbaccalaureate applicant wishes to be assured of initial consideration by more than one campus, a separate application (including fee) must be submitted to each. Applications may be obtained from the Graduate Studies Office or Admissions Office at any campus of The California State University or from high schools or community colleges.

Application Filing Periods

<i>Terms in 1984-85</i>	<i>First accepted</i>	<i>Filing period duration</i>	<i>Student notification begins</i>
Summer quarter 1984	Feb. 1, 1984	Each campus accepts applications until capacities are reached.	March 1984
Fall semester or quarter 1984	Nov. 1, 1983	Most accept applications up to a month prior to the opening day of the term.	Dec. 1983
Winter Quarter 1985	June 1, 1984	Some will close individual programs as they reach capacity.	July 1984
Spring semester or quarter 1985	Aug. 1, 1984		Sept. 1984

Space Reservation Notices

Most applicants will receive some form of space reservation notice from their first choice campus within two months of filing the application. A notice that space has been reserved is also a request for records necessary to make the final admission decision. It is an assurance of admission only if evaluation of the applicant's previous academic record indicates that admission requirements have been met. Such a notice is not transferable to another term or to another campus.

Hardship Petitions

Each college has established procedures to consider qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should contact the College regarding specific policies governing hardship admission.

Undergraduate Admission Requirements

First-Time Freshman Applicants

First-time freshman eligibility is determined by (1) high school grade-point average, (2) scores on either the ACT or SAT tests, (3) whether the applicant is a resident of California, and (4) whether four years of college preparatory English and two years of college preparatory mathematics have been completed.

Test Requirements

Applicants with fewer than 56 semester or 84 quarter units of transferable college work must submit scores for either the Scholastic Aptitude Test of the College Board (SAT) or the American College Test Program (ACT). Registration forms and test dates for either test may be obtained from school or college counselors, from a campus testing office, or from the following addresses:

The College Board (SAT)	American College Testing Program (ACT)
Registration Unit, Box 592	Registration Unit, P.O. Box 168
Princeton, New Jersey 08541	Iowa City, Iowa 52240

Grade Point Average and Test Score Requirement

To determine eligibility, the campus needs (1) the high school grade-point average (for the final three years of high school, not counting physical education or military science) and (2) either the total score from the Scholastic Aptitude Test (SAT) or the composite score from the American College Test (ACT). These are used to compute an eligibility index. Applicants can calculate their index by multiplying their grade-point average by 800 and adding their SAT total score. Or, if they took the ACT, multiply their grade-point average by 200 and add 10 times their ACT composite score. If their high school GPA is above 3.2 (3.6 for nonresidents), they are exempt from the test requirement except at Cal Poly, San Luis Obispo where test scores are required of all applicants.

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Residents

If the applicant graduated from a California high school or is a legal resident of California for tuition purposes, he or she needs a minimum eligibility index of 3072 using the SAT or 741 using the ACT. The complete table showing grade-point averages and test scores needed is contained in the Appendix, Page 372.

**Excerpts from Admissions Eligibility Table for California
High School Graduates**

<i>G.P.A.</i>	<i>2.00*</i>	<i>2.20</i>	<i>2.40</i>	<i>2.60</i>	<i>2.80</i>	<i>3.00</i>	<i>3.20**</i>
ACT	35	31	27	23	19	15	11
SAT	1472	1312	1152	992	832	672	512

* Below 2.0 not eligible
** Above 3.2 eligible with any score

Nonresidents

If the applicant is neither a graduate of a California high school nor a legal resident for tuition purposes, he or she needs a minimum eligibility index of 3402 (SAT) or 826 (ACT).

College Preparatory English Requirement

Beginning with admission to the fall term 1984 and thereafter, all entering freshmen must have completed four years of high school college preparatory English with grades of C or better. If a high school did not offer a fourth year of college preparatory English, or the English courses completed were not college preparatory, CSU campuses may waive a portion of the requirement during the 1984–86 phase-in period.

Regular 9th and 10th grade English courses are usually college preparatory. Most English courses for 11th and 12th graders are considered college preparatory if they include substantial instruction in reading and writing and frequent writing assignments. Written work should require critical thinking and the presenting of ideas in clear, sharp, and persuasive written form. Regular writing assignments, critically graded and rewritten, are the best preparation for college work. College preparatory English courses also should require wide reading in both modern and classical literature, fiction and nonfiction. There should be a close relationship between reading and written work.

Courses in speech, drama, or journalism are acceptable if they include the kinds of reading and writing experiences described. Courses in remedial reading and writing are not college preparatory. Beginning or intermediate courses in English as a Second Language (ESL) are not considered college preparatory although a year of advanced level ESL is acceptable as one year of the four-year English requirement. If there are questions about which courses are college preparatory, a high school counselor or other staff can advise you.

College Preparatory Mathematics Requirement

Beginning with admission to the fall term 1984 and thereafter, all entering freshmen must have completed two years of high school college preparatory mathematics with grades of C or better. Most students will take algebra and

geometry; second year algebra is strongly recommended. If the applicant plans to complete a college major in mathematics, science, engineering, computer science, premedicine, or other science-related fields, business, or economics, the applicant should take four years of college preparatory mathematics. Business or technical mathematics, arithmetic, pre-algebra, and similar basic classes are not college preparatory.

Additional College Preparatory Courses Recommended

English and mathematics are not the only high school courses needed to prepare for college. There are many college courses where the instructor will expect students to have had high school preparation in biology, physics, chemistry, history, economics, geography, as well as art and music. There are some college majors that require high school preparation in a foreign language.

Students should take full advantage of the college preparatory courses offered in high school, continuing studies, particularly in English and mathematics, through the entire senior year. A solid college preparatory program will be valuable no matter where the applicant goes to college and will prepare him or her to compete on an equal basis with other students.

TOEFL Required of Applicants Who Attend Foreign Institutions

Beginning with admission to the fall term 1984 and thereafter, all undergraduate applicants, regardless of citizenship, who have not attended for at least three years schools at the secondary level or beyond where English is the principal language of instruction are required to earn a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Individual CSU campuses may require a higher minimum score. The minimum score at the San Bernardino campus is 500.

Undergraduate Transfer Admission Requirements (Resident and Nonresident)

Grade Point Average and Subject Requirements

If in good standing at the last college or university attended, applicants can qualify for admission by meeting one of the following standards.

1. They graduated from high school prior to spring 1984, and
 - a. were eligible as a freshman and have a grade-point average of 2.0 (C) or better in all transferable* college units attempted, or
 - b. were not eligible as a freshman and have completed at least 56 transferable* semester units or 84 transferable* quarter units, with a grade-point average of 2.0 (C) or better if they are California residents for tuition purposes (2.4 if a nonresident).
2. They graduated from high school in the spring of 1984 or later, and
 - a. were eligible as a freshman (see freshman requirements) and have a grade-point average of 2.0 (C) or better in all transferable* college units attempted, or

* Transferable courses are those designated for that purpose by the college where the courses are taken.

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- b. were eligible as a freshman except for the high school subject requirements in English and mathematics, have satisfied any deficiencies by equivalent course work, and have a grade-point average of 2.0 (C) or better in all transferable* college units attempted, or
- c. were not eligible as a freshman, have completed at least 56 transferable* semester units or 84 transferable* quarter units with a grade-point average of 2.0 (C) or better if a California resident for tuition purposes (2.4 if a nonresident) and have satisfied any high school subject deficiencies in English and mathematics by equivalent course work.

Note: Effective fall 1986 and for all subsequent terms, transfer applicants must meet standard 2a, 2b, or 2c regardless of the date of high school graduation.

International (foreign) Students

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State College, San Bernardino.

An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL). This test is administered in most foreign countries and test scores must be received by the College before admission to the College can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A.

Foreign applicants must also submit a statement of financial responsibility to the Office of Admissions and Records to be considered for admission to the College. Also, foreign students are required to submit evidence of adequate medical/hospital insurance to the international student advisor.

Arrangements for housing should be completed before the student's arrival on the campus. Detailed information regarding housing may be obtained from the director of housing, California State College, San Bernardino. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State College, San Bernardino the student should obtain an appointment as early as possible with the foreign student advisor.

English Placement Test

All entering freshman and lower-division students who enroll with fewer than 84 transferable quarter units or 56 transferable semester units must complete the CSU English placement test (EPT) with the exception of students who present one of the following:

1. Satisfactory scores on the CSU English equivalency examination.
2. Score of 3, 4 or 5 on the English composition examination of the College Board Advanced Placement Program.

3. A score of 600 or above on the College Board achievement test in English composition with essay.
4. A score of 510 or above on the verbal section of the College Board Scholastic Aptitude Test (SAT—verbal).
5. A score of 23 or above on the ACT English usage test.
6. Completion of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better.

(To be eligible to enroll in English 101, Freshman Composition, a student must achieve an essay score of seven or greater and a total score of 150 or greater, or must have completed the English placement test and have earned a grade of C or better in English 100.)

Failure to take the English placement test at the earliest opportunity after admission may lead to administrative probation which, according to Section 41300.1 of Title 5, California Administrative Code, and CSU Executive Order 186, may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility but will be used to identify students who need special help in reading and writing in order to do college-level work.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirement. The materials may also be obtained from the Office of Admissions and Records.

Graduation Requirement in Writing Proficiency

All students subject to degree requirements listed in the 1977–78 and subsequent general catalogs must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Office of the Associate Vice President for Academic Programs.

Entry-level Mathematics Requirement

The entry-level mathematics (ELM) examination is required of all CSU undergraduate students who enroll for fall 1983 and thereafter, with the exception of students who present:

1. A score of 3 or above on the College Board Advanced Placement math (AB or BC).
2. A score of 530 or above on the math section of the Scholastic Aptitude Test (SAT-Math).
3. A score of 23 or above on the ACT math test.
4. A score of 520 or above on the College Board Math Achievement Test, Level 1.
5. A score of 540 or above on the College Board Math Achievement Test, Level 2.
6. Completion of a college course that satisfies the general education breadth requirement in quantitative reasoning of the CSU campus to which they have transferred. The course must be at the level of intermediate algebra or above, with a grade of C or better.

Students required to take this examination should do so as soon as possible after admission. (The results of this examination do not affect admission.) Fail-

ure to take the examination before the end of the first term may lead to probation and disqualification according to Section 41300.1 of Title 5, California Administrative Code and CSU Executive Order 338.

Students who cannot demonstrate basic competence on the examination are required to take steps to overcome deficiencies early in their enrollment. (Satisfactory score on the ELM examination is a prerequisite for Mathematics 100, 110 and 120.) Any course work undertaken primarily to acquire the required competence shall not be applicable to the baccalaureate degree.

Information bulletins and registration materials for the ELM examination will be mailed to all students who may be subject to the requirement or they may be obtained from the Office of Admissions and Records.

Admission of Postbaccalaureate and Graduate Students

Requirements pertaining to the admission of postbaccalaureate and graduate students are contained in the section on Graduate Programs, Page 81.

Returning Students

Students in good standing may be readmitted to the College after an absence of one term by filing a registration packet code sheet. The application and fee of \$35 are required if the student was not enrolled in any of the three terms (excluding summer session) prior to the term for which he is seeking admission or if he was enrolled in another institution during his absence from the California State College, San Bernardino. (See leave of absence Page 62.)

High School Students

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. The College's High School-College Program enables qualified high school juniors and seniors to enroll in college classes at times convenient to their high school schedules. A brochure describing the program is available from the Office of Admissions and Records or the Office of the Associate Vice President for Academic Programs.

Other Applicants

An applicant not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the College. Permission is granted only by special action of the College.

Transfer of Credit

A maximum of 70 semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the College. No upper-division credit may be allowed for courses taken in a

community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.

The Office of Admissions and Records will evaluate previous college work to determine its applicability to the requirements of the College. All undergraduate degree candidates will be issued a credit summary, indicating requirements which remain unfilled. Once issued to a student, the credit summary remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. Students will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

Credit for work completed at institutions of recognized accreditation will be accepted toward the satisfaction of degree requirements at the College within limitations of residence and major requirements, community college transfer maximums, and course applicability.

Credit for Standardized External Examinations and Systemwide Examinations

The College shall accept four and a half quarter units of credit for each of the following College Level Examination Program (CLEP) examinations passed at the 50th percentile, provided the examination was not taken previously within the past term and that degree credit has not been granted for previous course work at the equivalent or at a more advanced level than for the examination in question.

U.S. History	Mathematics (1975 edition)
Social Science	Fine Arts
Biological Science	Literature
Physical Science	

The College may also grant credit and advanced standing for CLEP subject examinations, using as minimum standards:

1. That the student submit a score at or above the 50th percentile in the norming group who earned a mark of C or better;
2. That equivalency to CSCSB courses be determined by the appropriate academic department;
3. That college credit shall have not been previously earned in the courses in question.

Questions regarding the acceptance of other standardized external examinations should be directed to the Office of Admissions and Records.

In no case will credit awarded through external examinations count towards residence credit.

English Equivalency Examination—Students passing the California State University English equivalency examination shall be awarded 9 quarter units of credit provided credit has not been granted previously at the equivalent or at more advanced levels. Further, those who pass this optional examination are exempt from the requirement to take the English Placement Test.

The total amount of credit earned on the basis of externally developed tests which may be applied to a baccalaureate degree shall not exceed 45 quarter units, except that advanced placement credit is excluded from the limit.

Credit by Advanced Placement

Students who have successfully completed courses in the Advanced Placement Program of the College Entrance Examination Board (defined as receiving a score of 3, 4 or 5) shall be granted credit for each advanced placement course toward graduation, advanced placement in the college's sequence of courses and credit for curriculum requirements.

Credit for Extension and Correspondence Courses

A maximum of 36 quarter units of credit earned through extension may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate credit earned through extension registration may be accepted toward a master's degree program. No credit so earned may be used to satisfy the college residence requirement.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.

Credit for Military Service

The College grants nine quarter units of lower-division undergraduate credit to veterans with a minimum of one year of active duty in the armed forces of the United States. This credit is applied as electives and may not apply toward the requirements in general education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. This credit is allowed on the basis of recommendations of the Commission on Educational Credit and Credentials of the American Council on Education.

The total amount of credit earned on the basis of externally developed tests and through recommendations of the commission, which may be applied to a baccalaureate degree, shall not exceed 45 quarter units, except that advanced placement credit is excluded from the limit.

Admission to Teaching Credential Programs

Admission to the College as a student does not constitute admission to a teaching credential program. Students who intend to work toward credentials should make application to the School of Education of the College.

Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Office of Admissions and Records. Auditors must pay the same fees as would be charged if the courses were taken for credit. Enrollment as an auditor is subject to the approval of the instructor. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for

courses audited will not be subsequently granted on the basis of the audit. Transcripts are not issued for students enrolled as auditors only.

Permission to register as an auditor is by appointment with the Registrar after the second day of registration.

Admission to Summer Session

Students interested in attending summer session only do not need to file an application for admission to the College. Instructions for applying for summer session only are included in the Summer Session Bulletin. Attendance at summer session does not automatically constitute admission to the College for ensuing regular terms.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the associate dean of academic programs for readmission to the College on probation. All petitions for readmission must be submitted to the Office of the Associate Dean of Academic Programs two weeks before the first day of registration for the term in which the student would enroll.

Admission on Academic Probation

An applicant with advanced undergraduate standing who does not meet the requirements stated above is eligible for admission on probation, if, in the opinion of the proper college authorities, he is likely to succeed in college.

Ordinarily, consideration for probationary admission is granted only to the mature applicant who, while his total college record does not meet the admission requirements, has demonstrated sufficient academic ability through college work recently completed elsewhere.

Applicants who are admitted with a grade-point deficiency are given probationary status and are subject to the probation and disqualification regulations as stated on Page 65. A student admitted on probationary status may be restricted by his advisor to a limited program.

Determination of Residence

The determination of whether a student qualifies as a resident for admission and tuition purposes is made by the College after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. A statement summarizing the principal rules regarding residency determination and their exceptions is included in the appendix.

Use of Social Security Number

Applicants are required to include their social security number in designated places on applications for admission pursuant to the authority contained in Title 5, California Administrative Code, Section 41201. The social security number will be used as a means of identifying records pertaining to the student as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the College.



EVENING OFFICE

Late-Day Classes

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proved to be of convenience to regular and part-time students, teachers, business people and others in the community. The proportion of late-day classes has been increasing and stands currently at more than one-third of all classes.

Evening Office

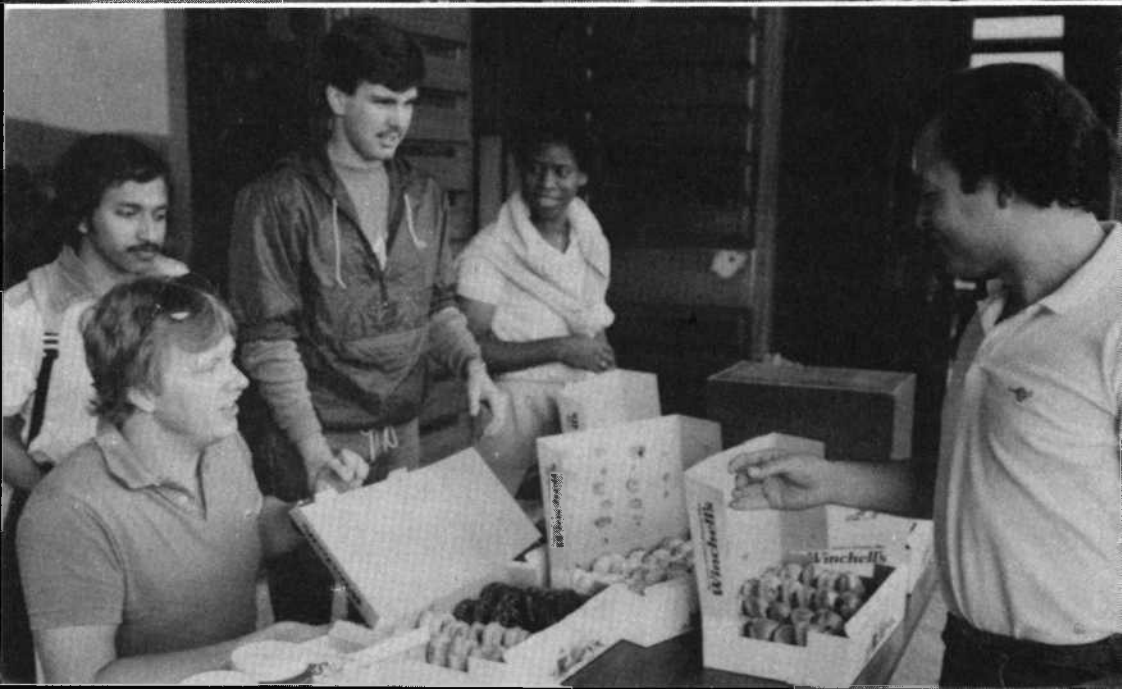
During the regular academic year, the College maintains an office to assist evening students. This office, located in the Pfau Library, telephone 887-7520, provides these students with many of the services usually offered during the day, such as help with college regulations, dropping courses, graduation checks, changes in major and parking permits. This office also makes available general information about the College's academic programs and activities. Further information may be obtained from the Office of Academic Programs.

Degree Completion Programs For Part-Time Students

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes.

Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, criminal justice, economics, English, geography, health science, history, human development, humanities, human services, liberal studies, nursing, political science, psychology, social sciences, sociology, Spanish and vocational education. At the graduate level, master's degree programs are available in business administration, public administration, biology, education, criminal justice and English composition.

Students who wish to pursue a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the College in the usual manner. (Persons with limited study time should note that a single late-day course constitutes one-third of a full load.)



FEE SCHEDULE

Increases may be made in certain fees for the 1984-85 academic year. Students are required to pay registration fees at registration. Tuition is not charged to legal residents of California.

Checks will be accepted at registration only for the amount of fees due. VISA and Master Charge bank credit cards may be used for payment of student fees. The application and identification fees are nonrefundable.

The following reflects the fees and expenses for the quarter system in effect when the Bulletin was printed. They are subject to change:

All Students

Application fee (nonrefundable, payable by check or money order at time of applying)			\$35.00
Student services fee			71.00
Facilities fee			2.00
State University Fee	0-5.9 units	6.0 or more units	
Undergraduate	40.00	120.00	
Postbaccalaureate	52.00	132.00	
Associated Students Fee	6 units or less	6.1 units or more	
Fall 1984	4.00	8.00	
Winter 1985	3.00	6.00	
Spring 1985	3.00	6.00	
Summer 1985	3.00	3.00	
Student identification card fee			2.00
Student union fee:			
Fall 1984			15.00
Winter 1985			13.00
Spring 1985			13.00
Summer session, 1985			9.00
Instructionally related activities fee:			
Fall 1984			8.00
Winter 1985			6.00
Spring 1985			6.00

Nonresidents (foreign and domestic)

Tuition (in addition to other fees charged all students): per unit or fraction	78.00
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Residence halls (for academic year)

Room and board (19 meals per week), double room	2762.00
Room and board (19 meals per week), single room	3089.00
Room and board (15 meals per week), double room	2609.00
Room and board (15 meals per week), single room	2936.00

Summer session fee

Per quarter unit of credit	36.00
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Special fees

Credential fee	35.00
Art fee, certain studio courses	5.00-25.00
Late registration	25.00
Failure to meet required appointment or time limit	2.00
Diploma fee	3.00
Commencement fee	4.00
Certificate fee	6.00
Parking fees (per quarter)	
First vehicle	15.00
Two-wheeled vehicle (includes mopeds)	3.75
Summer session (six-week session)	6.00
Check returned for any cause	10.00
Replacement of registration packet	2.00

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Transcript of academic record	
Single transcript.....	4.00
Additional transcripts prepared at same time, up to 10 transcripts	2.00
Additional transcripts prepared at the same time that exceeds the first 10 transcripts.....	1.00
Library fees.....	schedule posted at Library circulation desk
Master's degree thesis	contact Office of Graduate Programs

NOTE: Fees subject to change without advance notice.

Student Services Fee

A student services fee has been established by the trustees of The California State University to provide financing for various student services programs not covered by state funding. A full description of the allocation of the fee may be found in the appendix, Page 377.

Alan Pattee Scholarships

Children of deceased California public law enforcement or fire suppression employees, who were killed in the line of duty, are not charged fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act. Students qualifying for these benefits are known as Alan Pattee scholars. Further information is available at the Office of Admissions which determines eligibility.

Veterans' Dependents Exemptions

Certain dependents of U.S. veterans with service-connected disabilities and veterans who have been killed in service or died of a service-connected disability may be eligible for waiver of college fees. The annual income of the surviving parent cannot exceed \$5000. Further information is available from the veterans certification clerk.

Refund of Fees

Fees may be refunded only as authorized by Sections 41802, 41803 and 41913 of Title 5, California Administrative Code. Whether a fee may be refunded and the circumstances under which a refund is possible vary depending on the particular fee involved. Requirements governing refunds may include such matters as the reason (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed before application for refund is made (for example, requests for refund of student services fees, Associated Student Body fees and student union fees must be made no later than 14 calendar days following the start of regular classes and requests for refund of extension course tuition fees must be made prior to the fourth meeting of the class), and the degree to which the campus has provided the services for which the fee is charged. Details about refunds and the appropriate procedure to be followed may be obtained from the Business Office. The last date for refund of fees for each term appears in the class schedules.

Upon a student's withdrawal from all classes, the student services fee, the Associated Students fee, the Student Union fee and the instructionally related activities fee may be refunded if written application for refund, on forms pro-

vided by the registrar, is submitted to the Bursar not later than 14 calendar days (includes Saturdays, Sundays and holidays) following the first day of classes. However, \$5.00 shall be retained to cover the cost of registration. An additional \$5.00 shall be retained from the State University fee if such fee is imposed.

Nonresident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule: 100% before or during the first week of instruction, 75% during the second week, 50% during the third week, 25% during the fourth week. No refund is available after the fourth week.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule. Regular quarter: 66% during the first 25 calendar days of the quarter, 33% during the 26th through 50th calendar days, no refund after the 50th day. Summer session (based on calendar days commencing on the day instruction begins): 66% refunded during the first 10 days, 33% during the 11th through 20th days, no refunds after the 21st day.

Estimated Costs per Quarter

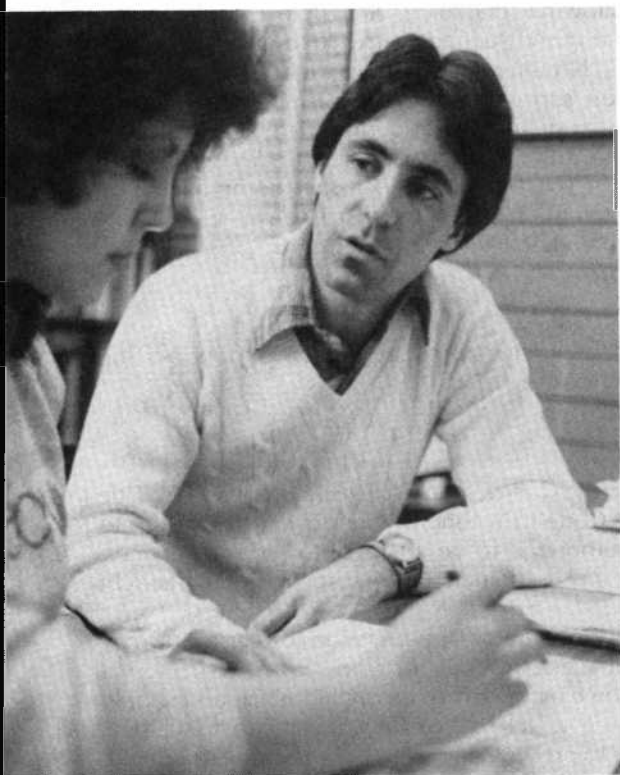
It is estimated that full-time students each quarter pay about \$95 for books and \$235 to \$247 for fees plus parking costs.

Debts Owed to the College

If a student becomes indebted to the College, the College is authorized by Title 5 of the California Administrative Code to withhold "permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above" until the debt is paid.

Under these provisions, the College may deny permission to register or may withhold permission to receive official transcripts of grades.

Students who feel they do not owe all or part of an unpaid obligation should contact the College business office which will review the matter, including information the students may wish to present, and will advise them of its conclusions.



*Dr. Robert Blackey
Professor of History
Outstanding Professor, 1983-84*



ACADEMIC REGULATIONS

All students who register at California State College, San Bernardino in resident study for either the fall, winter or spring quarter must first be admitted to the College by the Office of Admissions.

No student may attend classes until his or her registration has been completed.

Registration is complete only when official programs are properly filed and all fees are paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses under their name on the student schedule confirmation list, except those courses they officially change by filing a change of assignment with the Office of Admissions and Records.

Class Level of Students

Students are classified at the end of each quarter according to total earned credits accepted for transfer and/or completed at the California State College, San Bernardino as follows:

<i>Status</i>	<i>Units earned</i>
Lower division	
Freshman	0–44.9 quarter units
Sophomore	45–89.9 quarter units
Upper division	
Junior	90–134.9 quarter units
Senior	135 quarter units or more
Postbaccalaureate	Holding baccalaureate degree from an accredited college and not pursuing a graduate degree program
Unclassified	No degree, credential or certificate objective
Classified	Pursuing a credential or certificate
Graduate	Postbaccalaureate student pursuing a graduate degree
Conditionally classified	Completing prerequisite requirements
Classified	Admitted to the degree program

Advising

Students have the opportunity to meet with a faculty advisor (counselor) each term for help in planning their academic programs and schedules of classes.

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Usually, the faculty advisor comes from the same area as the student's major field. To make contact with an advisor, call the appropriate department office as listed in the Class Schedule which also gives information about advising for students who have not yet chosen a major and for students interested in one of the College's certificate or credential programs. Faculty advisors are available during special advising periods, which are held before registration each quarter. (See Class Schedule for dates.) Advisors are also willing to see students during their office hours throughout the term.

The Counseling and Testing Center offers specialized counseling in educational and personal matters. In addition, the Career Planning and Placement Center provides assistance to both students and alumni regarding the job search, information on the job market and career opportunities.

Academic Course Load: Undergraduates

The normal full-time course load is 15 quarter units, but a student may carry up to 19.5 quarter units with the advisor's consent.

A student may carry 20 or more units only upon petition to the school dean. Course overload cards are available in the school dean's office. Normally, petitions are approved only if both the grade-point average for the previous term and the overall grade-point average are 3.0 or better.

Academic Course Load: Postbaccalaureate and Graduate Students

The normal academic load for a postbaccalaureate or graduate student is 10 quarter units. To enroll in more than 15 units in any one quarter, a student must have written approval of the advisor and the associate dean for graduate programs. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly.

Accelerated Progress

Some students choose to accelerate progress toward completion of their objectives through a program of independent study, summer course enrollment and registration for additional course credits.

In addition, credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, courses offered through the Advanced Placement Program or the subjects tested by the College Level Examination Program.

In some instances, registration in summer sessions permits the completion of one full quarter, 15 units, of degree-applicable work.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the sections on academic course loads, above.

Credit for Comprehensive Examination Courses

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in

those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination). The student's major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the College's Repeat of Course policy will apply (see Page 67). In no instance will duplicate credit be awarded for a repetition of subject matter.

Credit by Examination

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the College. Students must register for the examination in the office of the school or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Courses may be designated by a school, department or appropriate unit as inappropriate to be challenged by examination on the basis that course content is not suited to such examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CR (see Page 63 for definition of this grade) for that course, provided that this does not duplicate credit counted for his admission to the College. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by students currently enrolled at the College in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the school or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.
5. A maximum of 40 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the associate vice president, academic programs.
7. Credit by examination may not be used to fulfill the minimum residence requirement.
8. The course must be offered during the term in which the examination is taken. However, students may not enroll in a course they plan to challenge. If the challenge is unsuccessful, the student may add the course subject to the regulations for adding a class printed in the quarterly Class Schedule.

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Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit by examination cannot be earned during the summer sessions.

For regulations concerning credit by examination in graduate programs refer to Page 87.

Concurrent Enrollment

Procedures have been established whereby a student in good academic standing at the California State College, San Bernardino who has completed at least 18 quarter units of work at the College and who is eligible to register as a continuing student for the immediately subsequent term may enroll concurrently at another campus of The California State University system. The procedure enables a student to attend another campus within the system, on a term by term basis, without submitting the formal application for admission form and paying the \$35 application fee. For information regarding the procedure, contact the Registrar.

To guarantee acceptance, for degree credit, of work taken at institutions other than those within The California State University system, a student must complete a concurrent enrollment/summer session contract. These contracts are prepared by the evaluators in the Office of Admissions and Records.

ROTC Programs

The College has a military science program (Army ROTC), described under Military Science in the academic section of this Bulletin. Students interested in Air Force or Navy ROTC should contact the Office of the School of Social and Behavioral Sciences.

Class Schedule

An official class schedule, prepared each quarter by the College, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each quarter and may be purchased at the College Bookstore. Students are responsible for being aware of information contained in the class schedule.

Late Registration

The last day for late registration each term will be announced in the class schedule. The College calendar, Pages 4 and 5, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$25 late registration fee is required.

Adding Classes

Students may add classes beginning with the first day of the late registration period and, subject to appropriate approvals, continuing up to and including the last day to add classes. See the Class Schedule.

Auditing Courses

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to the same fee structure as credit students, and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested within the first week of class and is approved by the instructor. Students registered for credit may change their status from that of an enrolled student to that of an auditor with the approval of the instructor concerned and within the first three weeks of class.

Forms for such changes may be secured from the Office of Admissions and Records. Registration is by appointment with the registrar.

Class Attendance

Regular attendance is expected of all students enrolled at the College. The instructor of each class sets specific standards expected of students.

A student absent from classes is responsible for arranging to make up missed class work and assignments. In cases of prolonged absence, the student should investigate the feasibility of withdrawal from the College. (See below.)

Withdrawal from a Class or the College

(See class schedule for details)

Students are assigned grades for every course appearing under their name on the student schedule confirmation list.

If a student withdraws officially from the College or from a class by the end of the third week of class (see College calendar for exact date), the course is not recorded on the permanent record.

Withdrawal after the third week, and prior to the last three weeks of instruction, is permissible only for serious and compelling reasons. Permission to withdraw during this time period must be obtained from the instructor and the school dean.

Withdrawal will not be permitted during the final three weeks of instruction except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete grade is not practicable. Withdrawal during this period requires the approval of the instructor, the school dean and the associate dean, academic programs.

A grade of W will be assigned for approved withdrawals occurring after the third week of instruction.

A student who withdraws from all classes in which he or she is enrolled must officially withdraw from the College.

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Leave of Absence

A planned leave of absence, if granted, entitles a student returning from an absence of from three quarters to two years to continue under the requirements of the catalog which applied prior to the absence.

Students may petition for planned leaves for reasons such as: (a) professional or academic opportunities, such as travel or study abroad, employment related to educational goals and major fields of study, or participation in field study or research projects; (b) medical reasons, including pregnancy, major surgery, or other health-related problems; (c) financial reasons, such as the necessity to work for a specified period in order to resume study with adequate resources; (d) military service.

Evaluation of petitions for planned leaves takes into account the student's stated plans and the extent to which a leave would contribute to educational objectives. Students are expected to plan their time of return and their activities during the leave. They must also state why it is critical to remain in continuous residence. In the case of medical or financial leaves, they must state how they plan to remain current with or advance in their academic fields.

Students obtaining a leave of absence after the last day to withdraw without penalty will receive grades of W in all courses.

The granting of a leave of absence does not constitute a waiver of the requirement for applying for readmission, but the application fee will be waived provided that the conditions of the leave have been met.

For information on the current policy, including restrictions, contact the Office of the Associate Dean, Academic Programs.

Final Examinations

Written examinations of two hours' duration are held at the close of each term. In courses extending over more than one term, the examination in the concluding term may also cover work done in the preceding term or terms. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the associate vice president, academic programs. Permission to take a final examination with a different section in the same course may be granted by the associate vice president, academic programs with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

Final Grade Report

Final grade reports will be available to students within a few weeks after the last day of each quarter.

Grievance Procedures

Information concerning academic or nonacademic matters may be obtained from the Office of the Dean of Students. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Office of the Dean of Students.

Grades

The grade symbols used at the College are as follows:

<i>Grade symbol</i>	<i>Performance level</i>	<i>Grade points per quarter hour</i>
A	Excellent	4.0
A —		3.7
B +		3.3
B	Good	3.0
B —		2.7
C +		2.3
C	Satisfactory	2.0
C —		1.7
D +		1.3
D	Passing	1.0
D —		.7
F		.0
CR	Credit	
NC	No Credit	

All courses, except those specifically designated otherwise, will be graded on the A through F basis.

Grade-point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this College are used to compute the resident grade-point average.

The following administrative grades carry no grade points and are, therefore, not used to determine a student's grade-point average. However, it should be pointed out that the Incomplete will be counted as an F if not removed within one calendar year from the date it was assigned.

I	Incomplete Authorized
RD	Report Delayed
SP	Satisfactory Progress
W	Withdrawal

The administrative grade of U carries no grade points but is included in determining units attempted. Thus, it is equivalent to an F.

Expanded Grade Symbol Definitions

A (Excellent): Meeting course requirements with a superior level of performance. A is recognized to be an honors evaluation.

B (Good): Meeting course requirements with a high level of performance.

C (Satisfactory): Meeting course requirements with an acceptable performance.

D (Passing): Meeting course requirements with minimally adequate performance.

F (Failing): Inadequate performance or not meeting course requirements.

CR (Credit): A satisfactory or better level of performance, equivalent to the grade of C (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of B (3.0) or better.

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NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of C— (1.7) or less. For graduate courses, equivalent to a grade of less than B (3.0). Does not award credit for the course.

I (Incomplete): An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being counted as equivalent to an F (or an NC) for grade-point average computation.

RD (Report Delayed): The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the Registrar and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in the calculation of grade-point averages.

SP (Satisfactory Progress): The SP symbol is used in connection with courses which extend beyond one academic term. The symbol indicates that work in progress has been evaluated as satisfactory to date but that the assignment of a precise grade must await the completion of additional course work. Cumulative enrollment in units attempted may not exceed the total number applicable to the student's educational objective. All undergraduate work is to be completed within the time specified but not to exceed one calendar year of the term of first enrollment, and a final grade will be assigned to all segments of the course on the basis of overall quality. The time limitation for graduate degree theses may be up to two years but may not exceed the overall time limit for completion of all master's degree requirements. Extension of any time period requires prior authorization by the associate vice president, academic programs.

U (Unauthorized Incomplete): The symbol U indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade-point average, this symbol is equivalent to an F.

W (Withdrawal): This symbol indicates that the student dropped the course. It carries no connotation of quality of performance and is not used in calculating grade-point average.

Policy on Nontraditional Grading

All courses are graded on an A through F basis, except those specifically designated as follows:

Credit/No Credit. Credit is awarded for grades equivalent to C or better. No credit is awarded for grades equivalent to C— or less.

ABC/No Credit. Grades awarded are A, A—, B+, B, B—, C+ or C. No credit is awarded for grades equivalent to C— or less.

Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The nontraditional Credit/No Credit grading allows faculty to award credit for satisfactory performance in an activity, rather than assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded Credit/No Credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded Credit/No Credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a Credit/No Credit basis may, at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 36 quarter units of work graded Credit/No Credit in satisfaction of the total units required in the student's baccalaureate degree program at the California State College, San Bernardino. This number includes any combination of units graded Credit/No Credit earned at the California State College, San Bernardino and any other institution or institutions, excepting that all units accepted for transfer credit from another institution at the time of the student's admission to the College may be used toward the satisfaction of the total units required for the baccalaureate degree. Acceptance for transfer credit by the California State College, San Bernardino of 36 quarter units or more graded Credit/No Credit at another institution or institutions precludes the student from offering courses graded Credit/No Credit at the California State College, San Bernardino, for satisfaction of units required for the baccalaureate degree.

Course grades of credit received under a credit-by-examination program are exempt from the 36-unit limitation.

Scholarship Standards for Undergraduates

For purposes of determining a student's eligibility to remain at the College, quality of performance toward the student's objective shall be considered. Such eligibility shall be determined by use of grade points and grade-point average.

- (a) An undergraduate student shall be subject to probation if, in any academic term, the student fails to maintain either a cumulative grade-point average or a grade-point average at the California State College, San Bernardino of at least 2.0 (grade of C on a five-point scale).
- (b) An undergraduate student shall be subject to disqualification if while on probation the student's grade-point balance either cumulative or at the California State College, San Bernardino displays a deficiency in excess of the number permitted for the student's class level pursuant to deficiency levels established by the chancellor.

Disqualification levels are as follows:

1. Lower-division student (fewer than 90 quarter units of college credit), 22.5

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grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;

2. Junior (90 to 134.9 quarter units of college work), 13.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
 3. Senior (135 or more quarter units of college work), 9 or more grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino.
- (c) An undergraduate student who is not on probation may be disqualified if at any time the student's cumulative grade-point average falls below 1.0 (grade of D on a five-point scale) and, in the opinion of the appropriate campus authority, it is unlikely in light of the student's overall educational record that the resultant grade-point deficiency will be removed in subsequent terms.

A student disqualified for scholarship deficiency may not enroll in any regular session of this College without permission from the Admissions and Academic Standards Committee, and may be denied admission to other educational programs operated or sponsored by the College.

Scholarship Standards for Postbaccalaureate and Graduate Students

Students in classified or conditionally classified graduate standing must maintain a 3.0 grade-point average in all work attempted.

Students in classified postbaccalaureate standing in credential programs must maintain grade-point averages appropriate to their program. GPA requirements for the various credential programs are:

Basic teaching credentials: single or multiple subjects require a 2.7 GPA in all work attempted; the designated subjects credential requires a 2.5 GPA in all work.

Specialist or services credentials require a 3.0 grade-point average in all work attempted with the exception of the school psychologist services credential which requires a 3.5 GPA in all work.

Failure to maintain the appropriate grade-point average will result in the student being placed on probation. Students on probation must rectify their grade-point deficiencies by the end of the quarter of notification of probationary status, or they automatically will be disqualified and placed in unclassified postbaccalaureate status. To apply for reinstatement to a graduate degree or credential program after disqualification, the student must petition the appropriate program committee.

A student who has been disqualified from a master's degree program may be admitted to another program only on the recommendation of the department to which the student has applied and with the approval of the associate dean for graduate programs.

Students in unclassified postbaccalaureate standing and students seeking a second bachelor's degree must maintain a 2.5 GPA in all work attempted. Students in this category who are dismissed from the College for failure to maintain these standards must petition the Committee on Graduate Education for readmission to the College.

Administrative Academic Disqualification

An undergraduate or graduate student may also be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative grade-point average or progress points. Such actions shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

Repeat of Courses: Undergraduates

Students may repeat a course only once in order to have the first grade discounted and the grade from the second attempt used on their transcript. The discounting of the grade in a repeated course is by petition only. Discounting means that when computing grade-point averages required for graduation, the College will exclude units attempted, units passed (if any) and grade points (if any) for previous attempts. If a student repeats a course more than once, the subsequent grades will be averaged to determine cumulative grade-point averages. No more than five different courses may be discounted by repeating them. A course may not be repeated for the purpose of removing an incomplete. If a course with variable topics is repeated to discount a previous grade, the same topic (identified by specific schedule number) must be repeated.

Students should inquire at the Office of Admissions and Records for a complete policy statement covering the repeat of courses.

Repeat of Courses: Postbaccalaureate

Classified graduate students and postbaccalaureate students may be permitted to repeat a course under certain provisions. Requirements for seeking permission to repeat courses and utilization of credits earned are explained in detail on Page 88.

Academic Renewal

Under certain circumstances a student may be granted permission to have up to two semesters or three quarters of undergraduate course work, taken at least five years earlier, disregarded from all considerations associated with requirements for the baccalaureate degree. Students who feel that they may qualify for this "academic renewal" policy should consult with the associate dean of admissions and records.

Plagiarism

Plagiarism is the presentation as one's own the ideas and writings of another. Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

Declaring (or Changing) a Major

Work in a major field of study is designed to afford students the opportunity to engage in intensive study of a discipline.

Students may declare a major at the time of admission.

Students entering the College as “undeclared” or those changing their majors should process a change of major form through the Office of Admissions and Records. Students who declare a major or change from one major to another following admission will be held to either

- (a) the current Bulletin for requirements of the *major* and to the Bulletin under which they entered for other college requirements (for example, general education), or
- (b) the Bulletin in effect at the time of graduation for *all* requirements.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum in this College, in any of the California community colleges, or in any combination of California community colleges and campuses of The California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this College either at the time of entering the curriculum or at the time of graduation from this College, except that substitutions for discontinued courses may be authorized or required by the proper college authorities. (See Leave of Absence, Page 62.)

Postbaccalaureate Credit for Senior Students

A student, for the term (including summer) in which he or she receives the baccalaureate degree, will be granted postbaccalaureate credit for any course taken at California State College, San Bernardino numbered 300 or above which is not needed to meet undergraduate degree requirements. Students not wishing to receive postbaccalaureate credit for such courses must petition to have the work included in their undergraduate program. Postbaccalaureate credit will not be granted for courses numbered below 300 or for courses taken in advance of the last undergraduate term.

Summer Enrollment at Other Institutions

In instances where there might be a question about the acceptability of course work taken at another institution in the summer, students are advised to consult the department offering the equivalent course at this College.

Information for Issuance of Transcripts

Transcripts are issued at a cost of \$4 per copy, payable in advance.

All transcripts will be complete as of the date of issuance showing all work attempted at the California State College, San Bernardino.

Copies are normally mailed one week after receipt of request. However, if the request specifies inclusion of grades just earned or verification of a degree just awarded, two to three weeks must be allowed beyond the end of the term for a transcript to be issued.

Access to Records

All student records, including recommendations, are kept by the College in accordance with the Family Educational Rights and Privacy Act of 1974, which allows students access to their records. Inquiries and concerns about this federal regulation should be directed to the Office of the Dean of Students for further information.

Veterans Information and Certification

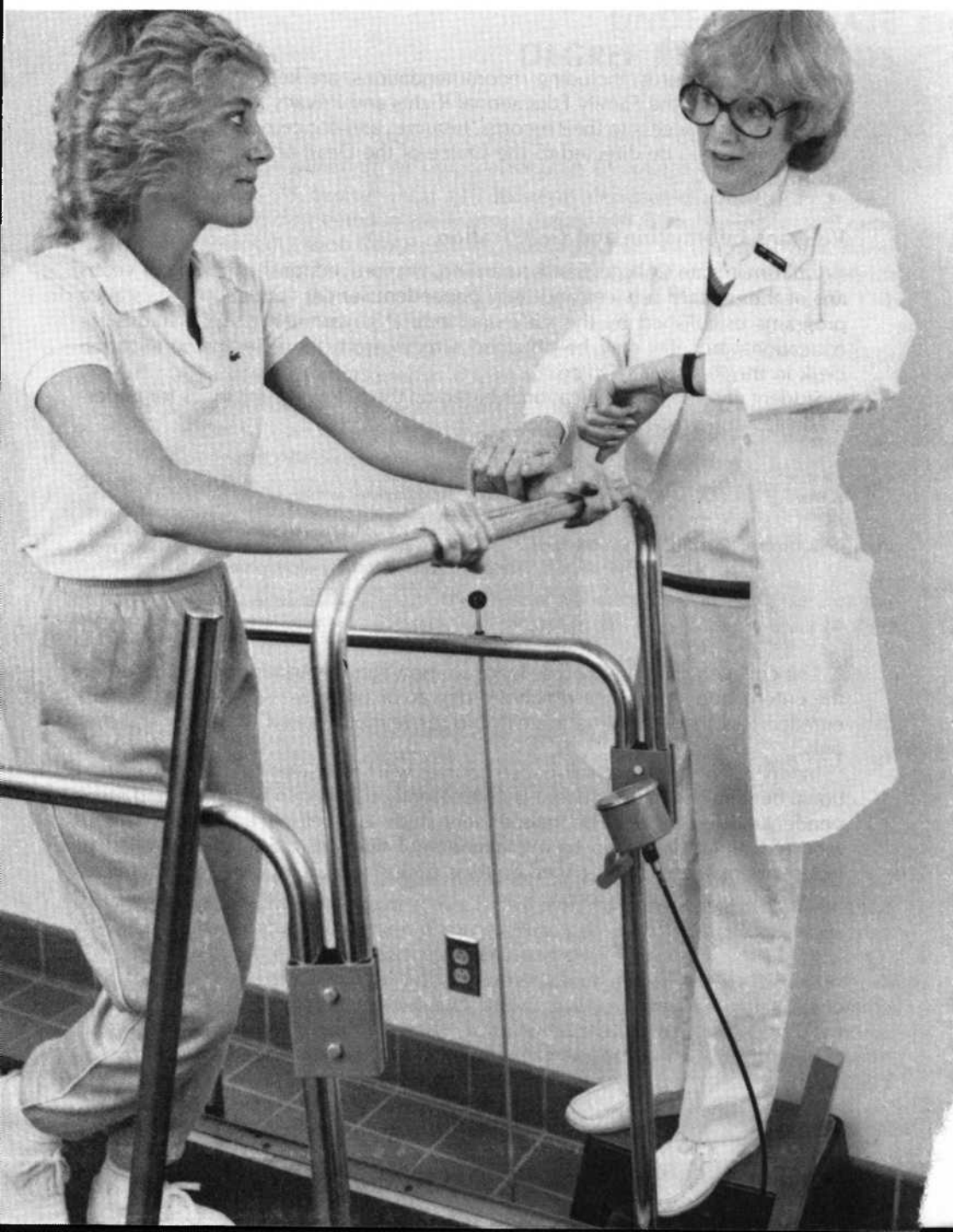
California State College, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk in the Registrar's Office.

Student enrollment certification is based on the following unit loads for undergraduates and graduates:

<i>Undergraduates</i>		<i>Graduates</i>	
Full time	12 quarter units	Full time	12 weighted units
$\frac{3}{4}$ time	9–11.5 quarter units	determined as follows:	
$\frac{1}{2}$ time	6–8.5 quarter units	500 and 600-level course weighted at 1.5 units	
		300 and 400-level course weighted at 1.0 units	
		100–200 no certification unless course is stated	
		condition for admission to a graduate program	
		$\frac{3}{4}$ time	9.0 to 11.5 weighted
		units as determined above	
		$\frac{1}{2}$ time	6.0 to 8.5 weighted
		units as determined above	

The college will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

Independent study and self-paced courses will be certified for monthly educational benefits when the student is concurrently enrolled in residence and independent study courses. The independent study and self-paced courses will be reported at full value up to a maximum of five units. Students enrolled in independent study or self-paced courses exclusively are eligible for reimbursement of tuition and fees only.



UNDERGRADUATE DEGREE REQUIREMENTS

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 186 quarter units of college credit.
2. Complete 75 quarter units (15 full-term designated courses) in general education distributed in the manner outlined in the following section titled General Education Requirements. Satisfactory scores on the English Placement Test and the Entry-level Mathematics Examination are prerequisites for enrollment in general education English (101) and Mathematics (100, 110, 120, 200) courses. (Refer to Page 74.)
3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this College.
(Refer to College Residence Requirement for Graduation, Page 76.)
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade-point average of 2.0 (C) or better in all units used to fulfill the requirements of the major.
7. Earn a grade-point average of 2.0 (C) or better in all units attempted, and in all units attempted at the College.
8. Complete six quarter units of physical education activity courses, or the equivalent. Students 25 years old or over may substitute six units of their choice.
9. Complete the upper-division writing requirement.
(Refer to Page 75.)
10. Complete history, constitution and government requirement.
(Refer to History, Constitution, Government Requirement, Page 75.)
11. Be recommended for graduation by the faculty of the College.

General Education Requirements

The general education requirements at California State College, San Bernardino are designed to assure that all graduates of the College, whatever their major, have acquired certain essential skills and a broad range of knowledge appropriate to educated persons in our society.

Lower-division courses, distributed among four general categories, are intended to foster an ability to think clearly and logically, to find and critically examine information, and to communicate, at an appropriate level, orally and in writing; to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning; to cultivate—through the study of philosophy, literature,

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languages, and the arts—intellect, imagination, sensibility and sensitivity; and to deal with human social, political and economic institutions and their historical background, with human behavior and the principles of social interaction. Upper-division courses include a further requirement in writing and cross-disciplinary courses designed to examine, from various perspectives, issues important to an understanding of ourselves, our world and our society.

The purpose of general education is less to provide students with a number of possible avenues for specialization, than it is to make sure that all students will be able to write, speak and think clearly, to understand the issues on which they will have to make decisions, and to know something about themselves and the world in which they live.

The general education program requires a minimum of 75 quarter units distributed as follows:

*No substitutions in the general education program are possible without **prior** approval of a petition submitted to the Office of Academic Programs.*

A. Communication and critical thinking: three courses

- a. English 101
- b. Either Philosophy 105 or Communication 120 (Interdisciplinary Studies 101A and B may be taken as an alternative to English 101 and Philosophy 105.)
- c. Upper-division writing requirement: one course from among Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495. (Prerequisites for 495 courses: English 101 and a minimum of 90 quarter units of college credit.)
Students exempted from this requirement by passing a designated special examination in writing must take instead a third course from Category E or Interdisciplinary Studies 596.

B. Humanities: three courses

One course in the arts:

- a. Art (Art 200)
- b. Music (Music 180)
- c. Theatre Arts (Theatre Arts 250)

Two courses in letters:

- a. Foreign studies (French, German or Spanish 101-102-103*, French 104, 200 or 210; Spanish 202, 204 or 450; Foreign Languages 450)
- b. Literature (English 110, 111, 170)
- c. Philosophy (Philosophy 190)

C. Natural sciences: three courses

One course in mathematics:

Mathematics 100, 110, 120, 200

One course from the life sciences:

- a. Biology (Biology 100, 202)
- b. Health science (Health Science 120)

One course from the physical sciences:

- a. Astronomy (Natural Sciences 100)
- b. Chemistry (Chemistry 100, 205, 215)

* Credit toward the general education requirement will not be awarded for the 101 course unless followed by 102.

- c. Earth science (Earth Science 101)
- d. Physical geography (Geography 103)
- e. Physics (Physics 100; 121 and 225; 221 and 225)
- D. Social sciences: three courses
 - One course chosen from each of the following groups.
 - a. World cultures (Social Sciences 140, 142, 144, 165)
 - b. American society (Political Science 203; Social Sciences 146, 155, 160)
 - c. Behavioral and Social Sciences (Anthropology 100, 102; Economics 104; Geography 100; Political Science 200; Psychology 100; Sociology 100)
- E. Upper-division general education requirement: two courses
 - To be chosen from among the designated upper-division general education lecture courses in two of three areas: Humanities (319, 330, 350, 353, 360); Natural Sciences (300, 310, 312, 314, 320, 351); Social Sciences (300, 304, 315, 321, 333, 343, 345). An alternate way to satisfy this requirement is to complete one of the Interdisciplinary Studies comprehensive examination sequences: IS 386A and B, IS 387A and B, or IS 388.
- F. General education elective: one course
 - To be chosen from the designated courses in categories A through E above.
- G. Lifelong understanding and development: one course
 - In completing general education requirements A through F, students must include at least one of the following courses designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities: Anthropology 100, 102, Biology 100, 202, Geography 100, Health Science 120, Humanities 319, Natural Sciences 310, 312, 351, Psychology 100, Social Sciences 160, 315, 333, Sociology 100.

Graduation Requirement Check

Seniors and postbaccalaureate students must request a graduation requirement check at the Office of Admissions and Records prior to completing their academic work at the College. Seniors should not request the check until they have accumulated 150 quarter units, which may include work in progress. Graduate students file after being advanced to candidacy. All students must file by the deadlines established for each quarter and published in the academic calendar in the Bulletin and in the Class Schedule.

In addition to certifying that requirements for graduation are met, the process also entitles undergraduate students within 30 units of graduation to first-day priorities for registration. The deadline for filing in order to secure this priority is earlier than the stipulated dates for filing to determine remaining requirements for graduation. Both dates are listed in the Class Schedule.

Students who do not complete the requirements in the term for which the first requirement check was filed must file a second graduation check on a second graduation check form, indicating the quarter in which graduation is expected.

Entry-level Mathematics Requirement

All students entering the CSU as of fall 1983 who are subject to the 1983–84 or subsequent Bulletins must demonstrate basic competence in mathematics. New freshmen must demonstrate competence by successful completion of the CSU entry-level mathematics (ELM) examination. Transfer students who are subject to requirements in the 1983–84 catalog must take the ELM, unless they have successfully completed (grade of C or better) a mathematics course certified for general education-quantitative reasoning (intermediate algebra or above) at the time of transfer. Satisfactory performance on any of several alternate examinations may exempt students from taking this examination. For more information, contact the Admissions Office.

Students required to take this examination should do so as soon as possible after admission. (The results of this examination do not affect admission.) Failure to take the examination before the end of the first term may lead to probation and disqualification according to Section 41300.1 of Title 5, California Administrative Code and CSU Executive Order 338.

Students who cannot demonstrate basic competence on the examination are required to take steps to overcome deficiencies early in their enrollment. (Satisfactory score on the ELM examination is a prerequisite for Mathematics 100, 110 and 120.) Any course work undertaken primarily to acquire the required competence shall not be applicable to the baccalaureate degree.

Information bulletins and registration materials for the ELM examination will be mailed to all students who may be subject to the requirement or they may be obtained from the Office of Admissions and Records.

English Placement Test

All entering freshmen and lower-division students who enroll with fewer than 84 transferable quarter units or 56 transferable semester units must complete the CSU English placement test (EPT) with the exception of students who present one of the following:

1. Satisfactory scores on the CSU English equivalency examination.
2. Score of 3, 4 or 5 on the English composition examination of the College Board Advanced Placement Program.
3. A score of 600 or above on the College Board achievement test in English composition with essay.
4. A score of 510 or above on the verbal section of the College Board Scholastic Aptitude Test (SAT—verbal).
5. A score of 23 or above on the ACT English usage test.
6. Completion of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better.

(To be eligible to enroll in English 101, Freshman Composition, a student must achieve an essay score of seven or greater and a total score of 150 or greater, or must have completed the English placement test and have earned a grade of C or better in English 100.)

Failure to take the English placement test at the earliest opportunity after admission may lead to administrative probation which, according to Section 41300.1 of Title 5, California Administrative Code, and CSU Executive Order 186,

may lead to disqualification from further attendance. The results of the EPT will not affect admissions eligibility but will be used to identify students who need special help in reading and writing in order to do college-level work.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirement. The materials may also be obtained from the Office of Admissions and Records.

Upper-Division Writing Requirement

All students subject to degree requirements of the 1980–81 or subsequent Bulletins must complete an upper-division writing competency requirement as a condition of graduation through either of two means:

1. Completion with a grade of C or better of one of the following courses: Administration 495, English 495, Humanities 495, Natural Sciences 495 or Social Sciences 495.*

or

2. Satisfactory completion of a designated examination.

(Note: Students who choose this option must substitute a third course from Category E of the general education requirements or Interdisciplinary Studies 596 for the required “495” course in Category A, Page 73.)

Students normally shall complete the upper-division writing requirement by the end of the junior year.

Further information about the examination (for example, how much it costs, when it is offered, what it covers) is available from the Counseling and Testing Office, Physical Sciences Building, Room 227 (887-7437). Contact the Office of the Associate Vice President, Academic Programs, for questions about the upper-division writing requirement itself.

History, Constitution, Government Requirement

California law prescribes, as a requirement for graduation, that each student demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in the U.S. Constitution may be met by completing one of the following: Social Sciences 146, History 200 or 540, Political Science 203, 410 or 411.

The requirement in U.S. history may be met by completing one of the following: History 200, 201, 540, Political Science 203, 314, Social Sciences 146.

The requirement in state and local government as established in California may be met by completing one of the following: History 370B or Political Science 203 or 330.

A student can meet the entire U.S. Constitution, U.S. history, and state and local government requirement, while fulfilling general education requirements, by taking Political Science 203. The opportunity to meet the requirements by passing an optional examination, which may be repeated once (not in the same quarter), is given to students. Information may be obtained from either the

* Prerequisites for 495 courses: English 101 and a minimum of 90 quarter (60 semester) units of college credits.

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Office of Admissions and Records or the School of Social and Behavioral Sciences office. The examinations are administered through the Counseling and Testing Center.

Second Bachelor's Degree Requirements

A student who holds a bachelor's degree from the California State College, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree:

1. General education requirements as stated in the appropriate catalog;
2. Upper-division writing requirement;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 45 quarter units of residence work of which
 - (a) 18 units must be in the second major,
 - (b) 15 units must be in general education,
 - (c) 36 units must be at the upper-division level; and
5. Approval of the faculty of the College.

It is not necessary to complete a second bachelor's degree in order to graduate with a dual major; however, only a single diploma is issued in the case of a dual major.

College Residence Requirement for Graduation

A minimum of 45 quarter units must be completed at this College. At least 36 of these units must be upper-division, 18 in the major and 15 in General Education.

Extension credit, credit by examination or credit by evaluation may not be used to fulfill the minimum residence requirement.

College Honors

College Honors at Commencement. To be considered for College Honors at commencement, a student must have completed a minimum of 45 units of work at the California State College, San Bernardino in courses for which letter grades (A, B, C and D) were received.

Highest Honors: an overall undergraduate GPA of 3.9 or above and a GPA of 3.9 or above in all work attempted at this College.

High Honors: an overall undergraduate GPA of 3.75 or above and a GPA of 3.75 or above in all work attempted at this College.

Honors: an overall undergraduate GPA of 3.5 or above and a GPA of 3.5 or above in all work attempted at this College.

Dean's List. An undergraduate student completing 15 or more units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

1. Dean's Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.

2. Presidential Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in three consecutive regular academic terms will receive a letter of special recognition from the president of the College.

Departmental Honors. Individual departments may grant departmental honors, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in American studies, biology, chemistry, criminal justice, economics, environmental studies, health science, history, human services, mathematics, music, nursing, philosophy, political science, psychology and sociology.

Preparation for Professional Schools

The plan of undergraduate study at the California State College, San Bernardino emphasizes a liberal education in preparing for professional or vocational specialization.

Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either kind of emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an appropriate preprofessional advisor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

Preprofessional Program: Medicine, Veterinary Medicine, Dentistry, Pharmacy

The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific requirements of professional schools the student is urged to consult such special sources as "Medical School Admission Requirements" (a publication of the Association of American Medical Colleges) or a preprofessional advisor in the School of Natural Sciences.

In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry, one year of general biology, with additional course work in developmental biology and/or comparative anatomy and genetics, and one year of physics. Other courses, e.g., mathematics through calculus and physical chemistry, are often recommended as well.

Since preprofessional programs in dentistry and medicine place heavy emphasis on biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect Mathematics 200 and Biology 342. A preprofessional

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student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect Biology 342, 423 and 440.

The science and mathematics components of preprofessional programs in veterinary medicine are quite similar to those for medicine.

Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required as well.

Preprofessional Program: Law

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law. Accordingly, the college offers a prelaw minor consisting of such courses. For further information concerning the prelaw minor, see Page 300.

Several broad objectives of prelegal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political and economic values, institutions, problems and frames of reference; and an ability for creative, innovative, critical and analytical thinking.

For these reasons, every prelaw student should carefully choose, with the aid of appropriate advisors, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (administration, economics, English, history, philosophy, political science and sociology, to name a few). For additional information, the student should consult with the prelaw advisor and should be familiar with the Prelaw Handbook.

For additional information, a student should see the bulletins or catalogs of various law schools or the official Prelaw Handbook, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.





GRADUATE PROGRAMS

The College currently offers graduate programs culminating in master's degrees in the following:

- Administration, M.B.A., M.P.A.
- Biology, M.S.
- Criminal justice, M.A.
- Education, M.A.
- English composition, M.A.
- Psychology, M.A., M.S.
- Special major, M.A.

Graduate programs at the College are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding and to pursue research in a chosen discipline. The College provides for the part-time student, as well as the full-time student, by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the calendar year.

The School of Business and Public Administration offers a Master of Business Administration (M.B.A.) and a Master of Public Administration (M.P.A.). Both degrees are broad programs designed to provide flexibility for the student to prepare for a career in administration in the private or public sector.

The M.S. in Biology provides further study in various biological concentrations. The unique environmental setting of the campus allows for special emphasis on desert and mountain ecological studies.

The M.A. in Criminal Justice is designed to serve the growing number of individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice.

The M.A. in Education offers options in bilingual/cross-cultural education, counselor education, elementary and secondary education, English and history (for secondary teachers), special education, reading, school administration and vocational education. The School of Education also offers credential programs designed to prepare students to teach in a variety of settings. In addition to the multiple, single and designated subjects credentials, specialist and services credential programs also are available.

The Department of English offers an M.A. in English Composition. The program is designed for individuals interested in pursuing studies in the teaching of composition and is also of benefit to those who need expertise as writers of grants, interpreters of public policy, editors and the like.

The Department of Psychology offers an M.S. with an area of concentration in counseling, in addition to an M.A. degree in general applied psychology.

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An M.A. with a Special Major allows a student with unusual educational or vocational objectives to draw from several departments to meet a specific need. Information on this program is available from the Associate Dean of Graduate Programs.

Detailed requirements of each program are listed alphabetically by department in the Curriculum section of the Bulletin.

Through its Office of Continuing Education, the College now offers an external Master of Arts degree in education in the Coachella Valley. The four options under this off-campus M.A. are elementary education, reading, school counseling and special education.

Latest details on the status of new programs may be obtained from the appropriate school or department or from the Office of the Associate Dean, Graduate Programs.

General Requirements for Admission

The basic requirements for admission of postbaccalaureate and graduate students to the California State College, San Bernardino are determined by the Board of Trustees of The California State University and are stated in Title 5, Subchapter 3 of the California Administrative Code.

Specifically, a student admitted with unclassified postbaccalaureate standing must: (1) have earned an acceptable baccalaureate degree at an institution accredited by a regional accrediting association or have completed equivalent academic preparation, (2) have attained a grade-point average of at least 2.5 (on a five-point scale) in the last 60 semester units (90 quarter units) attempted, and (3) have been in good standing at the last college attended.

Applicants who do not qualify for admission under the provisions cited above may be admitted by special action if, on the basis of acceptable evidence, they are judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the associate dean, graduate programs.

Categories of Admission

An applicant seeking admission to postbaccalaureate and/or graduate study at the College must be accepted in one of the following categories:

Unclassified Postbaccalaureate Standing. Students wishing to enroll in courses at the College with a professional growth objective, but not necessarily with an objective of a graduate degree or a teaching credential, may be considered for admission with unclassified postbaccalaureate standing when they meet standards specified under General Requirements. No more than 20 units of credit earned in unclassified standing may be used to demonstrate fitness to complete the program or may be counted toward meeting requirements for a graduate degree. Such units will be accepted only upon approval of the department in which the student is taking a degree. Admission to the College with unclassified postbaccalaureate standing does not constitute admission to graduate degree programs.

Classified Postbaccalaureate Standing (including Teaching Credentials). Students who have satisfied the general requirements for admission may be

granted classified standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program. They must also satisfy such additional professional, personal, scholastic and other standards as are prescribed for the program.

Postbaccalaureate students interested in working toward a multiple subjects credential, a single subject credential, a services credential or a specialist credential must achieve classified standing. Credential candidates must possess the following minimum grade-point averages:

- a. 2.6 in the last 90 quarter units attempted;
- b. 2.6 in course work in the academic field(s) authorized as subject matter preparation for the credential sought;
- c. 2.7 in professional education course work, with no course grade in this area lower than B-.

Information concerning admission requirements for the designated subjects credentials may be obtained from the Credentials Office (Pfau Library Building, fifth floor) or from the designated subjects coordinator.

Conditionally Classified Graduate Standing. Students who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation, including qualifying examinations, may be admitted to a graduate degree curriculum with conditionally classified graduate standing. These deficiencies must be corrected in the specified manner in order for a student to continue in the graduate degree program.

Classified Graduate Standing. Students who have satisfied the general requirements for admission may be admitted to a graduate degree program as classified graduate students, if they satisfactorily meet the professional, personal, scholastic and other standards for admission to the program, including qualifying examinations, and if they have removed deficiencies in the specified manner while in conditionally classified graduate standing. Only those students who show promise of success and fitness will be admitted to graduate degree programs, and only those who continue to demonstrate a satisfactory level of scholastic competence and fitness shall be eligible to continue in such programs.

Admissions Procedures

1. All students, including graduating seniors from this College, who plan to enroll as postbaccalaureate or graduate students for the first time during any regular academic quarter (fall, winter or spring), must file a formal application for admission and a \$35 nonrefundable application fee.

2. Former graduate students of the College must apply for readmission if: (a) they have been absent for more than two quarters (excluding summer sessions) immediately preceding the quarter for which readmission is sought, or (b) they have attended other colleges during their absences from California State College, San Bernardino. Students who have attended other colleges during their absences must submit official transcripts from those institutions. Students who have been absent for three quarters or more must again pay the \$35 application fee. (Students in good standing may be readmitted to the College after an absence of two quarters by filing a returning student code sheet, available in the Admissions Office.)

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3. Students who plan to complete all of their work for an advanced degree in summer sessions must still apply for classified standing and advancement to candidacy at the appropriate time; and to become classified, students must file a formal application for admission to the College.

Requests for information regarding admission to the fall, winter or spring quarters and all completed application materials should be directed to the Office of Admissions, California State College, San Bernardino; Attention: Graduate Admissions.

The College begins accepting applications from new and readmitted students on November 1 for the following fall quarter, June 1 for the following winter quarter and August 1 for the following spring quarter. Applicants for postbaccalaureate programs are limited to the choice of a single campus on each application. If postbaccalaureate applicants wish to be considered by more than one campus, they must submit separate applications and fees to each.

Requirements for a Master's Degree Program

Students pursuing an advanced degree through the College should, before completing 20 quarter units toward the degree, prepare and file an official document titled "an approved graduate program" with the department from which they plan to receive the degree. This program lists the specific requirements to be completed before the degree can be awarded. It must be approved by the student's major advisor, the chair of the student's major department and the associate dean of graduate programs. Once the program is accepted and approved, the student is officially advanced to degree candidacy.

The following standards apply to all master's degree approved graduate programs:

1. The program must include at least 45 quarter units of upper-division and graduate course work (i.e., courses numbered 300–699) taken while in postbaccalaureate standing. At least half of this work must be in courses organized primarily for graduate students.

2. The program must include 32 or more quarter units of course work taken in residence on this campus. Work taken in summer on this campus may be counted as residence credit. Credit by examination and credit for extension work are not considered as residence study.

3. The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

4. The program must follow the department curriculum in effect at the time the student is officially admitted (classified) in the major program or at the time the program is filed in the Office of the Associate Dean of Graduate Programs. Recommendations for any substitutions to the program must be approved in writing by the advisor and attached to the program.

5. The program course work must be completed with a minimum grade-point average of 3.0 (B). In addition, candidates must also maintain a minimum grade-point average of 3.0 (B) in all postbaccalaureate work undertaken at California State College, San Bernardino *and/or transfer work* following admission to classified graduate standing.

6. The program must include only courses with grades of "C" (2.0) or better. [Grades of C— (1.7) or less cannot be used.]
7. The program may not include more than 20 quarter units of work taken in unclassified status or before classified status was attained.
8. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree.
9. Courses numbered 100 to 299 and in the 800 series cannot be applied toward a master's degree. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.
10. A course taken at another college with a grade such as CR, S, or P cannot be accepted on a master's degree study plan unless such a course with such a grade is accepted by that college or university toward a graduate degree.
11. Graduate students will be required to pass (or to have passed) the upper-division writing requirement at this campus, or at another CSU campus, before advancement to candidacy, unless an earlier completion is specified for a particular program. Upon the recommendation of the campuswide coordinator of the 495 courses, this requirement may be satisfied through Advanced Expository Writing courses from colleges outside the CSU system, if passed with a grade of "C" or better.

Standards for Graduate Study

In general, graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis and creative thinking than undergraduate study. Extensive research is required in both primary and secondary sources, and high quality writing is expected. The student is advised to consider these factors when deciding the amount of course work to be undertaken during any one quarter.

Students are required to maintain the following grade-point averages according to their postbaccalaureate or graduate standing.

Students in classified or conditionally classified graduate standing must maintain a 3.0 grade-point average in all work attempted.

Students in classified postbaccalaureate standing must maintain grade-point averages appropriate to their credential program. GPA requirements for the various credential programs are listed below:

Basic teaching credentials, single or multiple subjects, require a 2.7 GPA in all work attempted with the exception of the designated subjects credential which requires a 2.5 GPA in all work.

Specialist or services credentials require a 3.0 grade-point average in all work attempted with the exception of the school psychologist services credential which requires a 3.5 GPA in all work.

Failure to maintain the appropriate grade-point average will result in the student being placed on probation. Students on probation must rectify their grade-point deficiencies by the end of the quarter of notification of probationary status, or they automatically will be disqualified and placed in unclassified postbaccalaureate status. To apply for reinstatement to a graduate degree or credential program after disqualification, the student must petition the appropriate program committee.

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A student who has been disqualified from a master's degree program may be admitted to another program only on the recommendation of the department to which the student has applied and with the approval of the Associate Dean of Graduate Programs.

Students in unclassified postbaccalaureate standing and students seeking a second bachelor's degree must maintain a 2.5 GPA in all work attempted. Students in this category who are dismissed from the College for failure to maintain these standards must petition the Committee on Graduate Education for readmission to the College.

Academic Load

To enroll in more than 15 units in any one quarter, a student must have written approval of the advisor and the Associate Dean of Graduate Programs. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly. Financial aid recipients should consult the Financial Aid Office.

Grievance Procedures

Information concerning academic or nonacademic matters may be obtained from the Office of the Dean of Students. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Office of the Dean of Students.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same graduate curriculum in the College may, for the purposes of meeting graduation requirements, elect to meet (1) those requirements in effect at the time the student is admitted into a formal graduate program and enters the curriculum, or (2) those requirements in effect at the time of graduation from the College. Substitutions of or for discontinued courses may be authorized or required by the department or school graduate committee and by the Associate Dean of Graduate Programs.

Two Master's Degrees

Students who wish to secure two different master's degrees may do so. No more than 10 quarter units used for one degree may be counted as part of the second degree, and then only by petition submitted to and approved by the concerned program committees or department or school graduate committees and the Associate Dean of Graduate Programs. In no case shall a student be awarded a given master's degree more than once.

Thesis

Students enrolled in degree programs requiring a thesis should contact the

Office of the Associate Dean of Graduate Programs for information regarding preparation of the manuscript, format and style, number of copies and so forth.

Graduation Requirement Check

Candidates for degrees to be awarded at the end of a regular quarter or summer session must file applications with the Admissions and Records Office. Procedures and applicable dates for the graduation-requirement checks are published each quarter in the Class Schedules.

Change in Approved Graduate Program

If during graduate study a master's candidate wishes to change the approved program by adding or removing a course, this may be done under certain circumstances. A request for such a change must be initiated by the student and approved by the graduate advisor, the department chair and the Associate Dean of Graduate Programs.

Concurrent Enrollment

A graduate student enrolled at the College may enroll concurrently for additional courses at another institution only with advance written approval from the graduate advisor and the Associate Dean of Graduate Programs. Ordinarily, permission will not be granted when the study load in the proposed combined program exceeds 15 quarter units.

Postbaccalaureate Credit for Seniors

All course work (numbered 300 or above) completed in the final quarter before graduation that is not required for the bachelor's degree will automatically be considered postbaccalaureate credit unless the student petitions otherwise. Petitions are available in the Admissions and Records Office.

Credit by Evaluation (Examination)

A graduate program, while building upon course work previously completed, should be used to acquire new knowledge and skills. Acquisition of units through credit by evaluation, on the other hand, relies inherently on old knowledge and skills. Therefore, prerequisite courses and other requirements outside of the formal program may be challenged, but units gained through credit by evaluation cannot be included within the formal program of study.

In cases where a graduate student may possess the necessary knowledge and skill and wishes to challenge a course within the formal program of study, a petition must be submitted sequentially to the instructor of the specific course, the department or school graduate committee, and the Committee on Graduate Education. Contingent to approval of the petition by the Committee on Graduate Education is the condition that an additional course be added to the formal program as elective credit to replace each course that is successfully challenged through credit by evaluation.

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Students may not enroll in a course they plan to challenge but must register for credit by examination in the office of the school or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Those students who are unsuccessful in challenging may add the course subject to the regulations for adding a class printed in the quarterly Class Schedule. A student who passes an examination is given the grade of CR for that course. No official record is made of failures in these examinations. No fee is charged for these examinations, though they are available only to currently enrolled students.

Repeat of Courses

Classified and conditionally classified graduate students may be permitted to repeat a course taken as an undergraduate once with approval of the advisor and only to remove a deficiency. A subsequent repeat must be approved by the school or department graduate committee. In no case shall such credit be counted toward the 45 units required for a master's degree. The last grade earned shall apply toward the student's cumulative postbaccalaureate GPA and shall not replace the grade in the undergraduate record.

Classified and conditionally classified graduate students may be permitted to repeat a course taken for graduate credit only by petition to and approval of the school or department graduate committee. The last grade earned will apply to the student's cumulative postbaccalaureate GPA.

Classified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate only by petition to and approval of the appropriate school or department committee and the grade earned shall not replace the grade in the undergraduate record. Courses taken for postbaccalaureate credit may be repeated only by petition to and approval of the appropriate school or department committee. In both cases the last grade earned shall apply to the student's cumulative postbaccalaureate GPA.

Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate only by petition to and approval of the Associate Dean of Graduate Programs, and the grade earned shall not replace the grade in the undergraduate record. Courses taken for postbaccalaureate credit may be repeated only by petition to and approval of the Associate Dean of Graduate Programs. In both cases the last grade earned shall apply to the student's cumulative postbaccalaureate GPA.

Transcripts

Applicants for unclassified postbaccalaureate standing must furnish official transcripts from *each* college or university attended. A separate transcript from each college or university is required even though one transcript may show work taken at another institution.

Applicants for classified postbaccalaureate standing (teaching credentials), or conditionally classified and classified graduate standing must furnish *two* official transcripts from each institution attended.

Students who attend summer sessions only need not file transcripts *unless* they plan to earn degrees or credentials at the California State College, San Bernardino.

Admission of Summer Session Students

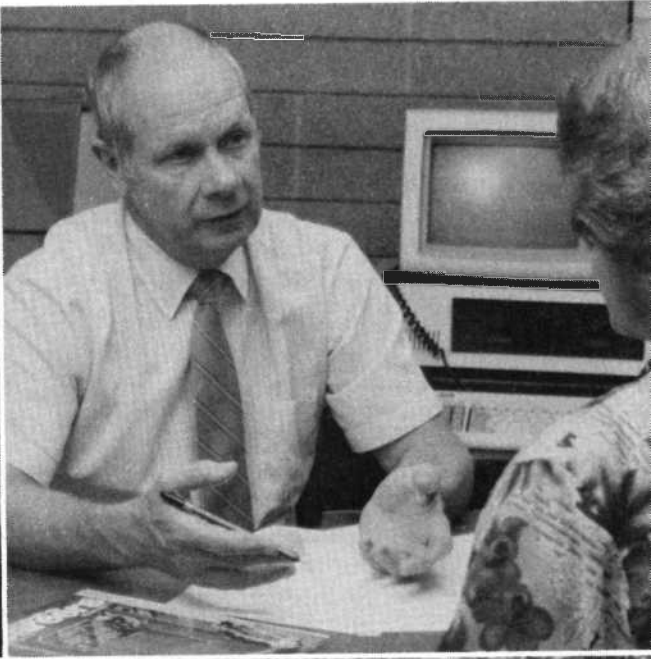
The College normally offers course work at all levels in its summer sessions, but enrollment in a summer session does not constitute admission to the College. Summer session students can pursue postbaccalaureate course work as unclassified students, but to become classified students they must file a formal application for admission to the College. Although resident study is highly desirable, some students may be able to complete degree programs through summer study only.

Admission from Nonaccredited Schools

Graduates of nonaccredited schools who give evidence of unusual promise and superior background may petition the Associate Dean of Academic Programs for admission as unclassified postbaccalaureate students. Such students who wish to enter a specific graduate program must then petition the appropriate school or department for admission to conditionally classified graduate status. Requirements for admission to conditionally classified status shall be determined by the concerned department and approved by the Committee on Graduate Education.

Limitations of Enrollment

Entrance of postbaccalaureate students to any program may be subject to limitations (i.e., each master's degree or credential program may restrict enrollment whenever limitations of facilities and/or staff warrant).



CERTIFICATE PROGRAMS

The College offers a variety of programs leading to a certificate of competency in a special area.

Certificates may be earned by regularly matriculated or continuing education students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or (b) produce mastery of the content of a sub-field of an academic major (discipline); or (c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, candidates must earn a grade-point average of 2.0 or better in applicable course work. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the College. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation that the requirements for that program have been satisfied. The candidate is responsible for filing an application with the Office of Admissions and Records for granting of the certificate, no later than the last term of certificate-applicable study, and for notifying the coordinator of the certificate program of completion of required course work. Award of the certificate will be noted on the student's transcript.

Certificate in Accounting

(Department of Accounting and Finance, Administration Building, Room 162, 887-7676)

The requirements for a Certificate in Accounting are a minimum of 30 units distributed as follows:

1. Administration 306. Concepts of Accounting
2. *Administration 340. Managerial Accounting
or
*Administration 344. Cost Accounting Fundamentals
3. †*Administration 372. Intermediate Accounting
4. *Administration 373. Problem Areas in Intermediate Accounting
5. Plus two of the following electives chosen in consultation with an advisor:
 - *Administration 345. Cost Accounting and Control
 - *Administration 374. Reporting Issues in Intermediate Accounting
 - *Administration 426. Federal Taxation: Individuals
 - *Administration 427. Federal Taxation: Corporations and Fiduciaries
 - *Administration 428. Accounting for Combined Corporate Entities
 - *Administration 430. Financial Policies and Systems
 - *Administration 438. Auditing
 - *Administration 445. Financial Systems Management

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*Administration 568. Governmental Financial Management and Accounting

*Administration 569. Theory and Practice of Internal Auditing

*Course has a prerequisite

†Placement test required

Certificate in Bilingual/Cross-cultural Studies: Spanish/English

(Office of the Associate Vice President, Academic Programs, Administration Building, Room 194, 887-7521)

The requirements for a Certificate in Bilingual/Cross-cultural Studies: Spanish/English consist of the following:

1. Spanish 101. College Spanish I or equivalent
2. *Spanish 102. College Spanish II or equivalent
3. *Spanish 103. College Spanish III or equivalent
4. Psychology 347. Psychological Development of the Chicano
5. History 391. Chicano History
6. Three additional courses to be selected from:
 - Anthropology 354. Cultures of Mexico and Central America
 - Art 328. Mexican Art
 - Art 329. Chicano Art
 - Education 536. Teaching the Culturally Different
 - Foreign Languages 450. Mexican Literature in Translation
 - History 390. History of Mexico
 - Humanities 460. Culture Studies: Mexico
 - Music 351. Mexican and Chicano Music
 - Political Science 351. The Chicano and Politics
 - *Sociology 342. The Chicano Family
 - *Spanish 440. Mexican Literature

*Course has a prerequisite

Certificate in Business Skills for the Artist

(Department of Art, Visual Arts Building, Room 123, 887-7459)

The requirements for the Certificate in Business Skills for the Artist are 30 quarter units distributed as follows:

1. Administration 305. Marketing Principles
2. Administration 306. Concepts of Accounting
3. Administration 442. Small Business Management
4. Plus 15 units of upper-division studio art selected in consultation with an advisor.

Certificate in Children's Theatre

(Department of Theatre Arts, Creative Arts Building, Room 175, 887-7452)

The requirements for a Certificate in Children's Theatre consist of the following:

1. Theatre Arts 211. Oral Interpretation of Literature
2. Theatre Arts 251. Acting I
3. *Theatre Arts 252. Acting II

4. Theatre Arts 339A. Technical Production for Children's Theatre
 5. *Theatre Arts 339B. Technical Production for Children's Theatre
 6. Theatre Arts 381. Readers Theatre in the Classroom
 7. Theatre Arts 481. Creative Dramatics
 8. *Theatre Arts 482. Readers Theatre
 9. Theatre Arts 483. Children's Theatre
 10. Plus six units of performance/production to be chosen from any of the following six courses:
 - Theatre Arts 320A. Theatre Practicum: Performance
 - Theatre Arts 320B. Theatre Practicum: Imagination Players
 - Theatre Arts 320C. Theatre Practicum: Touring Theatre
 - Theatre Arts 320D. Theatre Practicum: Technical Production
 - Theatre Arts 320E. Theatre Practicum: Special Projects
 - *Theatre Arts 555. Independent Study (Children's Theatre)
- * Course has a prerequisite

Certificate in Community Mental Health

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for the Certificate in Community Mental Health are 30 quarter units distributed as follows:

1. Health Science 371. Organization and Function of Community Health Services
2. Health Science 421. Community Mental Health
3. *Psychology 387. Community Psychology
4. *Psychology 390. Abnormal Psychology
5. Plus 10 units chosen from the following in consultation with an advisor:
 - Health Science 336. Drug and Alcohol Use and Abuse
 - *Health Science 399. Community Service Project
 - Health Science 423. Health Aspects of Aging
 - Health Science 435. Child and Youth Development: Health Aspects
 - Health Science 451. Principles of Epidemiology
 - Health Science 470. Health Behavior and Community Health Education
 - *Health Science 492A. Field Study: Action/Research in Human Ecology and Health
 - *Psychology 201. Developmental Psychology
 - *Psychology 315. Helping Processes
 - *Psychology 329. Psychology of Adulthood and Aging
 - *Psychology 333. Drugs and Behavior
 - *Psychology 351. Behavior Modification: Principles and Applications
 - *Psychology 384. Personality and Social Development
 - *Psychology 385. Personality
 - *Psychology 391. Psychopathology of Childhood
 - *Psychology 490. Counseling Psychology
 - *Sociology 355. Medical Sociology
 - *Sociology 356. Sociology of Mental Illness

*Course has a prerequisite

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Certificate in Computers and Programming

(Department of Computer Science, Pfau Library Building, Room 43, 887-7368)

The requirements for a Certificate in Computers and Programming consist of the following:

1. Computer Science 131. Computer Programming I
 2. *Computer Science 132. Computer Programming II
 3. Plus 10 units in computer languages selected from:
 - Computer Science 125. Introduction to BASIC Programming
 - Computer Science 140. Introduction to FORTRAN Programming
 - *Computer Science 240. Scientific FORTRAN
 - *Computer Science 250. COBOL Programming
 - *Computer Science 260. Assembly Language Programming
 - *Computer Science 290. High Level Language
 4. *Computer Science 310. Computer System Organization I
 5. *Computer Science 311. Computer System Organization II
 6. *Computer Science 330. Data Structures and Algorithms I
- * Course has a prerequisite

Certificate in Criminal Justice

(Department of Criminal Justice, Administration Building, Room 183, 887-7252)

The requirements for a Certificate in Criminal Justice consist of the following:

1. Criminal Justice 101. Introduction to Criminal Justice I
2. Criminal Justice 102. Introduction to Criminal Justice II
3. Criminal Justice 103. Critical Issues in Criminal Justice
or
*Sociology 352. Juvenile Offender
4. *Sociology 350. Criminology
5. *Sociology 357. Sociology of Law Enforcement
or
*Sociology 358. Sociology of Punishment and Corrections
6. *Sociology 359. Law and Society
7. Criminal Justice 300A. Criminal Justice Administration: Police Administration
or
Criminal Justice 300C. Criminal Justice Administration: Correctional Administration

*Course has a prerequisite

Certificate in Education of the Gifted and Talented

(School of Education, Pfau Library Building, Room 500 north, 887-7571)

The requirements for a Certificate in Education of the Gifted and Talented consist of the following:

1. *Education 538. Introduction to Teaching the Gifted and Talented
2. *Education 539. Programs for Teaching the Gifted and Talented
3. †*Education 630. Topics in Research in Teaching and Learning:
Education of the Gifted and Talented

4. †*Education 679F. Field Work: Education of the Gifted and Talented (for a total of 5 units)

*Course has a prerequisite

†Course is open to postbaccalaureate and graduate students only

Certificate in Educational Computing

(School of Education, Pfau Library Building, Room 522, 887-7570)

The requirements for a Certificate in Educational Computing consist of the following:

1. *Education 546. Microcomputers in Education
2. *Education 551. Computers and Learning
3. *Education 552. Computers: Curriculum and Instruction
4. *Education 553. Computers: Development of Instructional Materials

* Course has a prerequisite

Certificate in Educational Technology

(School of Education, Pfau Library Building, Room 87, 887-7296)

The requirements for a Certificate in Educational Technology consist of the following:

1. Education 544. Construction of Instructional Materials
2. *Education 546. Microcomputers in Education
3. *Education 547. Educational Technology
4. *Education 548. Seminar in Instructional Design
5. Plus 10 additional units to be chosen from the following courses:

Art 303. Design Studies

Art 386. Audio and Video Media

Computer Science 125. Introduction to BASIC Programming

†Education 641. Media and Strategies in Teaching

English 370. Theory and Practice of Newspaper Journalism

Music 519. Audio Production

*Course has a prerequisite

†Course is open to postbaccalaureate and graduate students only

Certificate in Financial Management

(Department of Accounting and Finance, Administration Building, Room 162, 887-7676)

The requirements for a Certificate in Financial Management are a minimum of 30 units distributed as follows:

1. *Administration 303. Financial Theory
2. Administration 306. Concepts of Accounting
3. *Administration 430. Financial Policies and Systems
4. *Administration 435. Investment Analysis
5. Plus two of the following electives chosen in consultation with an advisor:

*Administration 340. Managerial Accounting

†*Administration 372. Intermediate Accounting

*Administration 373. Problem Areas in Intermediate Accounting

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*Administration 426. Federal Taxation: Individuals

*Economics 410. Money and Banking

*Economics 475. Public Finance

*Course has a prerequisite

†Placement test required

Certificate for French/English and English/French Translators

(Department of Foreign Languages, Pfau Library Building, Room 276, 887-7445.)

The requirements for a Certificate for French/English and English/French Translators are proficiency in French equal to that of French 103 or its equivalent ** and completion of the following courses with a GPA of 2.7 or better.

1. *English 495. Expository Writing
2. *French 200. Conversation and Composition
3. *French 302. Advanced French Composition
4. *French 309. French for Translators (A, B and C for a total of 15 units)
5. Humanities 460. Culture Studies: France

* Course has a prerequisite

** Entering students with previous training in French, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.

Certificate in General Business

(School of Business and Public Administration, Administration Building, Room 153, 887-7678)

The requirements for a Certificate in General Business consist of the following:

1. Administration 301. Management Practices
2. Administration 302. Human Behavior in Organizations
3. *Administration 303. Financial Theory
4. *Administration 304. Quantitative Analysis for Management
5. Administration 305. Marketing Principles
6. Administration 306. Concepts of Accounting

* Course has a prerequisite

Certificate for German/English and English/German Translators

(Department of Foreign Languages, Pfau Library Building, Room 276, 887-7445.)

The requirements for a Certificate for German/English and English/German Translators are proficiency in German equal to that of German 103 or its equivalent ** and completion of the following courses with a GPA of 2.7 or better.

1. *German 202. German Conversation
2. *German 308. Readings in German Literature
3. *German 309. Advanced German Composition
4. *German 312. Practical Translation
5. *German 313. Technical and Scientific Translation
6. *English 495. Expository Writing
7. Humanities 460. Culture Studies: Germany

* Course has a prerequisite

** Entering students with previous training in German, and those who are native

speakers, should contact the department for information about advanced placement and credit by examination.

Certificate in Gerontology (Applied)

(Department of Sociology, Administration Building, Room 183, 887-7224)

The requirements for a Certificate in Applied Gerontology consist of the following:

1. Health Science 423. Health Aspects of Aging
2. *Psychology 329. Psychology of Adulthood and Aging
3. *Sociology 330. Social Gerontology
4. Plus 15 units of elective courses. These courses may be either in the Natural Science option or in the Social Science option and must be selected with the approval of the advisor.

Natural Science Electives

- *Biology 222. Human Anatomy and Physiology
- *Biology 314. Biology of Human Sexuality
- *Biology 315. Introduction to Human Embryology
- *Biology 316. Genetics of Man
- Health Science 336. Drug and Alcohol Use and Abuse
- Health Science 356. Housing and Institutions
- Health Science 358. Foods, Nutrition and Health
- Health Science 361. Principles of Accident Prevention
- *Health Science 362. Principles of Nutrition
- *Health Science 370. Diet and Disease
- Health Science 371. Organization and Function of Community Health Services
- Health Science 374. Basic Audiometry and Hearing Problems
- Health Science 440. Family Health
- *Health Science 474. Advanced Audiometry

Social Science Electives

- Anthropology 331. Anthropology of Human Development
- *Psychology 578. Advanced Topics in Psychology
- *Psychology 580. Advanced Seminar in Psychology: Death and Dying
- *Psychology 595. Independent Study
- *Sociology 434. Community Organization
- *Sociology 530. Advanced Seminar in the Sociology of Aging
- *Sociology 555. Independent Study

* Course has a prerequisite

Certificate in Health Services Administration and Planning

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for a Certificate in Health Services Administration and Planning consist of the following:

1. Administration 301. Management Practices
2. Administration 306. Concepts of Accounting
3. Health Science 371. Organization and Function of Community Health Services

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4. *Health Science 415. Medical Care Organizations
 5. *Health Science 422. Health Planning
 6. *Health Science 427. Hospital Administration
or
*Health Science 455. Organization and Management of Long-Term Care Facilities
- * Course has a prerequisite

Certificate in Human Resources Management

(Department of Management, Administration Building, Room 153, 887-7678)

The requirements for a Certificate in Human Resources Management are a minimum of 30 units distributed as follows:

1. Administration 302. Human Behavior in Organizations
2. *Administration 455. Human Resources Management
3. *Administration 457. Industrial and Labor Relations
4. *Administration 458. Employment Policies and Practices
5. Plus two of the following electives chosen in consultation with an advisor:
 - Administration 350. Administrative Communications
 - *Administration 355. Management of Administrative Conflict
 - *Administration 402. Studies in Organizational Behavior
 - *Administration 451. Organization and Management Theory
 - *Administration 456. Psychology of Human Resources
 - *Administration 462. Human Factors Design
 - Administration 485. Women in Administration
 - *Administration 551. Organizational Behavior Modification
 - *Administration 557. Public Sector Labor Relations
 - *Administration 562. Public Personnel Administration

*Course has a prerequisite

Certificate in International Relations

(Department of Political Science, Administration Building, Room 130, 887-7238)

The requirements for a Certificate in International Relations consist of:

1. 30 units chosen from the following, with no more than 20 units from any one discipline:
 - Administration 470. Management of International Operations
 - *Economics 420. Comparative Economic Systems
 - *Economics 430. International Economics
 - Economics 450. Economic Development
 - History 556. Foreign Relations of the United States
 - Political Science 300. Western Political Systems
 - Political Science 304. Communist Political Systems
 - Political Science 306. Developing Political Systems
 - Political Science 325. American Foreign Policy
 - Political Science 400. International Politics
 - Political Science 484. International Security and Defense Strategy
 - Political Science 500. International Law

Political Science 510. International Organization
Political Science 590. Seminar in International Relations
Social Sciences 300. Nonwestern World

* Course has a prerequisite

Certificate in Latin American Studies

(Department of Anthropology, Student Services Building, Room 136, 887-7281)

The requirements for a Certificate in Latin American Studies consist of:

1. 30 units to be chosen from the following courses. No more than 10 units may be taken from any one discipline.

Anthropology 305. New World Prehistory

Anthropology 310. Ancient Civilizations of the New World

Anthropology 354. Cultures of Mexico and Central America

Anthropology 356. Cultures of South America

Art 324. Pre-Columbian Art

Art 328. Mexican Art

Foreign Languages 450. Literature in Translation (when topic pertains to Mexico or Latin America)

Geography 321. Area Study: Latin America

Geography 390. Selected Topics in Geography: Tropical Geography

History 390. History of Mexico

History 469. Colonial Latin America

History 470. Modern Latin America

Humanities 460. Culture Studies (when topic pertains to Mexico or Latin America)

Music 351. Mexican and Chicano Music

Social Sciences 304. Contemporary Latin America

*Spanish 400. Masterpieces in Spanish and Spanish American Literature (when topic pertains to Latin America)

*Spanish 440. Mexican Literature

Spanish 450. Mexican Literature in Translation

*Spanish 514. Seminar in Hispanic Language, Literature or Civilization (when topic pertains to Latin America)

*Course has a prerequisite

Certificate in Local Government Planning

(Department of Public Administration, Administration Building, Room 162, 887-7704)

The requirements for a Certificate in Local Government Planning consist of the following:

1. Administration 521. Principles of Planning
2. Administration 563. Governmental Budgeting
3. Administration 564. Local Public Administration
4. Plus three of the following electives chosen in consultation with an advisor:
 - Economics 360. Economics of the Environment
 - *Economics 475. Public Finance
 - Geography 415. Urban Planning and Land Development
 - Geography 440. Urban Geography

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- Health Science 355. Health, Consumer and Environmental Law
- Health Science 372. Environmental Administration and Environmental Impact Reporting
- Health Science 401. Land Use: Health Aspects

* Course has a prerequisite

Certificate in Marketing Management

(Department of Marketing and Management Science, Administration Building, Room 135, 887-7711)

The requirements for a Certificate in Marketing Management are a minimum of 30 units distributed as follows:

1. Administration 305. Marketing Principles
2. *Administration 410. Consumer Behavior
3. *Administration 441. Techniques for Marketing
4. Plus three of the following electives chosen in consultation with an advisor:
 - *Administration 411. Retailing
 - *Administration 412. Advertising
 - *Administration 414. Sales and Sales Management
 - *Administration 440. Marketing Research
 - Administration 442. Small Business Management
 - Administration 470. Management of International Operations
 - *Administration 530. Business and Society
 - *Economics 302. Intermediate Microeconomics
 - Geography 420. Geography of Economic Activity

* Course has a prerequisite

Certificate in Military Science

(Office of Military Science, Student Services Building, Room 124, 887-7273)

The requirements for a Certificate in Military Science consist of the following:

1. Administration 301. Management Practices
2. Administration 302. Human Behavior in Organizations
3. History 325A. The American Military Experience: 1860–1918
4. History 325B. The American Military Experience: 1919–1942
5. History 325C. The American Military Experience: 1942–Present
6. Physical Education 146. Orienteering
7. Political Science 484. International Security and Defense Strategy
8. *Sociology 369A. Military Sociology: Comparative Military Sociology
9. *Sociology 369B. Military Sociology: American Military Sociology
10. Plus four additional units to be chosen from the following courses:
 - Physical Education 146. Backpacking
 - Physical Education 146. Camping
 - Physical Education 146. Mountaineering
 - Physical Education 146. Survival Skills

*Course has a prerequisite

Certificate in Occupational Safety and Health

(Department of Health Science and Human Ecology, Physical Sciences Building, Room 119, 887-7348)

The requirements for a Certificate in Occupational Safety and Health consist of the following:

1. *Health Science 352. Environmental Health I
2. *Health Science 353. Environmental Health II (or other course selected in consultation with an advisor)
3. Health Science 361. Principles of Accident Prevention
4. Health Science 366. Occupational Health and the Work Environment
5. Health Science 381. Occupational Safety
6. *Health Science 410. Toxicology
7. Health Science 425. Hearing Conservation and Noise Measurement
8. *Health Science 476. Industrial Hygiene (or other course selected in consultation with an advisor)

* Course has a prerequisite

Certificate in Paralegal Studies

(Department of Political Science, Administration Building, Room 130, 887-7238)

The requirements for a Certificate in Paralegal Studies consist of:

1. 55 units of which 40 are to be chosen from the following:
 - Paralegal Studies 370. Wills, Estates and Trusts
 - Paralegal Studies 371. Contract Law
 - Paralegal Studies 372. Tort Law
 - Paralegal Studies 373. Property Law
 - Paralegal Studies 376. Family Law and Community Property
 - Paralegal Studies 377. Trial Practice
 - Paralegal Studies 378. Corporate Law
 - Paralegal Studies 379. Environmental Law
 - Paralegal Studies 380. Criminal Law
 - Paralegal Studies 385. Legal Research and Writing
2. 15 additional units to be selected from:
 - Administration 330. Legal Environment of Business
 - *Administration 444. Professional Accounting Law
 - *History 540. Constitutional History of the United States
 - *Paralegal Studies 575. Internship in Paralegal Studies
 - Philosophy 465. Philosophy of Law
 - Political Science 328. Judicial Process
 - Political Science 410. American Constitutional Law
 - Political Science 411. The Bill of Rights
 - *Political Science 535. Seminar in Constitutional Law
 - *Sociology 359. Law and Society

* Course has a prerequisite

Students are strongly advised to take Paralegal Studies 385 in the first quarter of the program as it provides an introduction to legal language.

Certificate in Religious Studies

(Department of Philosophy, Pfau Library Building, Room 236B, 887-7469)

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The requirements for a Certificate in Religious Studies consist of:

1. 30 units to be chosen from the following:
 - Anthropology 480. Magic, Religion and Science
 - English 315. Studies in Literary Genres: The Bible as Literature
 - English 333. Myth and Epic
 - History 380. History of World Religions
 - Humanities 496. Selected Topics in Humanities: The Death of God
 - Philosophy 450. Man's Search for God or Gods
 - Philosophy 452. Classics of Eastern Thought
 - *Sociology 380. Sociology of Religion
- * Course has a prerequisite

Certificate in School Business Management

(School of Education, Pfau Library Building, Room 532, 887-7773)

The requirements for a Certificate in School Business Management consist of the following:

1. *Education 511. Contemporary School-Business Management
2. Education 512. School Finance and Budgeting
3. *Education 513. School Accounts and Related Functions
4. Two courses chosen from:
 - Education 514A. School Business Management and Service Functions: Purchasing, Warehousing and Inventory
 - Education 514B. School Business Management and Service Functions: Transportation and Risk Management
 - Education 514C. School Business Management and Service Functions: Facilities Planning, Construction
 - Education 514D. School Business Management and Service Functions: Computer Services in Business Functions
5. Plus one elective to be selected from:
 - Administration 307. Public Relations in the Public Sector
 - Education 530. Psychology and Education of Exceptional Children
 - *Education 531. Introduction to Counseling

or

Five additional units of Education 514
- * Course has a prerequisite

Certificate in Small Business Management

(Department of Management, Administration Building, Room 153, 887-7678)

The requirements for a Certificate in Small Business Management are a minimum of 35 units distributed as follows:

1. Administration 301. Management Practices
2. *Administration 303. Financial Theory
3. Administration 305. Marketing Principles
4. Administration 306. Concepts of Accounting
5. Administration 442. Small Business Management
6. *Administration 445. Financial Systems Management

7. *Administration 575. Internship in Administration
(Small Business Consulting)

* Course has prerequisite.

Certificate in Social Work

(Department of Sociology, Administration Building, Room 183, 887-7224)

The requirements for a Certificate in Social Work consist of the following:

1. Sociology 100. The Study of Society
2. *Sociology 318. Social Welfare Policies and Services
3. *Sociology 339. Socialization
or
*Sociology 480. Human Growth and Social Environment
4. *Sociology 434. Community Organization
5. *Sociology 436. Group Dynamics
6. *Sociology 484. Social Casework
7. †*Sociology 575. Internship in Sociology and Social Work (2 quarters—10 units)

* Course has a prerequisite

† Internship will be waived for those having one year of social work experience in a social agency.

Certificate in Spanish for Public Services

(Department of Foreign Languages, Pfau Library Building, Room 276, 887-7445)

The requirements for a Certificate in Spanish for Public Services are proficiency in Spanish equal to that of Spanish 103 or its equivalent** and completion of the following courses:

1. *Spanish 202. Grammar and Composition
2. *Spanish 302. Theory and Practice in Composition
3. *Spanish 312. Techniques for Professional Interpreting and Translating in Spanish
4. *Spanish 314. Advanced Conversation
5. *Spanish 316. Spanish in Communication Media
6. Plus one additional course to be selected from:
*Spanish 400. Masterpieces in Spanish and Spanish American Literature
*Spanish 440. Mexican Literature
*Spanish 514. Seminar in Hispanic Language, Literature or Civilization

* Course has a prerequisite

** Entering students with previous training in Spanish, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.

Certificate in Teaching Basic Mathematics

(Department of Mathematics, Biology Building, Room 109, 887-7351)

The requirements for a Certificate in Teaching Basic Mathematics consist of the following:

1. A valid California teaching credential in a subject other than mathematics

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2. *Mathematics 110. Introduction to College Mathematics
3. *Mathematics 120. Pre-Calculus Mathematics
4. Mathematics 160. Geometry in Two and Three Dimensions
5. Mathematics 200. Basic Concepts of Calculus
6. Mathematics 302. Problem Solving in Mathematics
7. *Natural Sciences 499. Methods and Materials in the Teaching of Natural Sciences Subjects

or

- * Mathematics 301. Basic Mathematics for Educators

With departmental permission, mathematics courses with a calculus prerequisite may be substituted for any of Mathematics 110, 120 or 160.

* Course has a prerequisite

Certificate in Urban Planning

(Department of Geography, Student Services Building, Room 139, 887-7280)

The requirements for a Certificate in Urban Planning consist of 30 quarter units distributed as follows:

1. *Geography 301. Cartography
 2. *Geography 370. Landforms, Soils and Remote Sensing
 3. Geography 415. Urban Planning and Land Development
 4. Geography 440. Urban Geography
 5. Economics 360. Economics of the Environment
- or
- Geography 350. Conservation and Natural Resources
6. Plus five units chosen from the following:
 - Administration 521. Principles of Planning
 - Anthropology 493. Urban Anthropology
 - Geography 410. Regional Planning and Resource Development
 - *Geography 575. Internship in Geography
 - Health Science 372. Environmental Administration and Environmental Impact Reporting
 - Health Science 401. Land Use: Health Aspects
 - *Sociology 420. Population and Social Ecology
 - *Sociology 430. Urban Sociology

*Course has a prerequisite

Certificate in Women's Studies

(Academic Programs, Administration Building, Room 194, 887-7521)

The requirements for a Certificate in Women's Studies consist of:

1. 30 units chosen from the following courses:
 - Administration 485. Women in Administration
 - *Biology 314. Biology of Human Sexuality
 - Health Science 404. Women's Health Issues
 - History 513. Women in U.S. History
 - Philosophy 357. Philosophy and Sexual Politics

Political Science 340. Sex and Politics

*Psychology 331. The Psychology of Women

*Sociology 344. Sex Roles: The Life Cycle

*Sociology 346. Sex Roles: Inequality
and from

a variety of seminar courses such as Women in Art, Drama, and Literature
and from

certain 800-level extension course offerings, with no more than 15 units
being taken at the 800 level

*Course has a prerequisite

Certificate in Writing

(Department of English, Pfau Library Building, Room 248, 887-7446)

The requirements for a Certificate in Writing consist of:

1. 30 units of the following courses selected in consultation with an English department advisor:

English 311. The English Language

English 313. Introduction to Creative Writing

English 370. Theory and Practice of Newspaper Journalism

*English 495. Expository Writing

*English 500. Grammar and Linguistics

*English 505. History of the English Language

*English 513. Advanced Creative Writing

*Course has a prerequisite



EXTENDED EDUCATION

The term extended education denotes a variety of courses, programs, activities and events through which the services and resources of the College are made available to a broad, general audience and are brought to bear on immediate issues and interests of the larger community of which the College is a part.

Responding to diverse educational needs of residents of its two-county service area, the College undertakes to develop opportunities for those seeking personal growth and fulfillment, for those pursuing professional renewal and advancement, for others aspiring to resume an education that has been interrupted or is incomplete, and for still others whose personal experience or community situation dictates an organized effort to understand and affect the conditions of modern urban life.

The California State University regards its extended education credit-bearing programs as integral parts of the institution. These programs are viewed as extensions of the College's educational services and are in concert with its overall mission and purpose. The programs and courses in extended education are expected to meet the standards of quality which the institution sets for its other programs and courses, in terms of resources, faculty, level of instruction, evaluation and support services.

Extended Education Study and Credits

Extended education offerings include both courses selected from the established curriculum and new courses designed to meet current needs and desires expressed by groups, professions and communities.

The College has a plan which also opens classes offered in the regular program of the College to extended education students, answering the needs of those who wish to take a specific course or two, but do not want to matriculate to do so. These registrations are handled in the Office of Extended Education and are accommodated on an individual, space-available basis. Credits earned are degree-applicable but do not carry residence credit.

A maximum of 36 quarter units of degree-applicable credit earned through extended education may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate degree-applicable credit earned through extended education may be accepted toward a master's degree program.

Credits earned in courses offered only through extended education and numbered in the 800-series are not degree-applicable though they may satisfy salary hurdle, credential, relicensure or similar professional requirements, or serve for personal growth.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.

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Individuals interested in the extended education program may be placed on the mailing list for regular announcements of courses by contacting the Office of Extended Education.

Noncredit Courses

In addition to its many credit courses, the Office of Extended Education offers a variety of noncredit courses and programs designed in response to the needs and interests of people seeking personal growth or professional enrichment. Such courses carry with them no academic credit but, in some instances, may award continuing education units (CEU's) or contact hours (CECH's) to verify to employers or professional associations that the individual has completed a short-term educational program. In many cases, it is also possible to enroll in credit-bearing courses on a noncredit basis.

Summer and Special Sessions

Summer and special sessions afford both regular and nonmatriculated students opportunity to pursue undergraduate or graduate study in virtually all of the College's academic majors and in professional programs.

There is no prior application required nor are there formal procedures for admission to summer or special sessions. Course credits earned in the summer denote residence credit and are accepted toward degree programs on campus when students matriculate in the College.

Announcement of the summer programs is made in early spring each year. The calendar and schedule of classes may be obtained without charge from the Office of Extended Education.

External Degree Programs

Recent establishment in the California State University of procedures for developing, implementing and evaluating external degree programs means that as need and demand warrant, complete upper-division curricula can be offered at sites distant from the College.

The guidelines imply careful articulation with community colleges in planning degree programs in a limited number of major fields. Classes of at least 25 to 35 students are essential since external degree programs are required to be self-supporting from fees, as continuing education long has been. For approved programs, usual residence requirements are waived to enable students who complete the prescribed sequence of courses to earn the baccalaureate degree wholly through off-campus study.

Inservice and Professional Education Programs

Within this scope of activity, the office provides consulting services, training development programs, educational components for grants, needs assessment and curriculum planning for organizations.

In addition, the office has designed a variety of professional development packages to help businesses and organizations accelerate the professional effectiveness, productivity and problem-solving skills of their staffs. Custom-designed programs to meet specific personnel needs may be developed, as well.

Conferences

Professional groups or organizations planning conferences and meetings may contact the Office of Extended Education for assistance.

Depending upon the scope and content of the particular conference, the Office of Extended Education may be able to provide co-sponsorship, arrange for meeting and meal facilities, locate keynote speakers and other program presenters, provide registration, certificates of completion and, in many cases, professional advancement or extended education credit.

Open College

Many of the College's regular courses are open to nonmatriculated students through extended education under a program called Open College. Cal State extension students who meet the prerequisites may enroll in regular on-campus courses on a space-available basis. Students in Open College courses will receive extended education credit for the courses rather than regular residence credit and will be subject to extended education regulations regarding fees, refunds, grading and transcripts. Up to 36 units of continuing education credit earned in this manner may be applied to a bachelor's degree and 13 units of graduate credit may be similarly applied if a student is admitted to an appropriate graduate program.

Students who desire to enroll in Open College classes are required to secure a permit from the Office of Extended Education and obtain approval of the instructor.

Information about availability of specific courses may be secured from the Office of Extended Education.

American Culture and Language Program (ACLCP)

New to the campus, ACLP is designed for the college-bound, non-English speaker who seeks an intensive English/American experience. ACLP provides international students with intensive study of the English language at beginning, intermediate and advanced levels; an introduction to American culture and lifestyles through a variety of educational field trips; necessary preparation for university-level course work; on campus residence; TOEFL preparation and academic counseling.



THE CURRICULUM

Schools of the College

The academic program of the College is offered through five schools—Business and Public Administration, Education, Humanities, Natural Sciences and Social and Behavioral Sciences—organized into departments, listed below:

Business and Public Administration

Accounting and Finance
Management
Marketing and Management Science
Public Administration

Education

Special Programs
Teacher Education

Humanities

Art
English
Foreign Languages
Music
Philosophy
Theatre Arts

Natural Sciences

Biology
Chemistry
Computer Science
Health Science
Mathematics
Nursing
Physical Education
and Recreation
Physics

Social and Behavioral Sciences

Anthropology
Criminal Justice
Economics
Geography
History
Political Science
Psychology
Sociology

Degree programs are offered by departments, schools and interdisciplinary committees. A complete listing of the degrees available at the College may be found on Pages 20 and 21.

Course Numbering System

1–99	<i>Nondegree-applicable credit.</i>
100–299	Lower-division courses designed primarily for freshmen and sophomores. <i>Graduate credit is not allowed.</i>
300–599	Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program.
600–699	Courses for postbaccalaureate and graduate students only. <i>May not be taken by undergraduates.</i>
X800–X899	Courses offered through extension only. <i>Credit not degree applicable.</i>
IP100–IP699	Courses taken by students in the International Programs.
e300–e699	Credit earned in a continuing education program for residence credit pursuant to an external degree program.

Course Credits

Most courses at California State College, San Bernardino carry five quarter units of credit; some carry six units; some $2\frac{1}{2}$ units; and a few variable credit. Course credits are indicated in the course descriptions in this Bulletin. For purposes of comparison with other colleges, a five quarter-hour course is equivalent to a $3\frac{1}{3}$ semester-hour course.

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, they should consult the appropriate instructional departments, schools, or administrative offices for current information. (Also see Changes in Rules and Policies statement on Page 378.)

The class schedule, issued prior to each quarter, lists courses to be offered during that term.

ADMINISTRATION

*School of Business and Public Administration
Administration Building, Room 142
887-7531*

The School of Business and Public Administration offers a major in administration designed to prepare students for careers in business, government service, institutions and related fields.

The administration curriculum reflects the view that the concepts, philosophies and methodologies of modern administrative science, though traditionally studied in the context of business enterprise, have applicability to large-scale organizations generally. This curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management. The managerial function and decision-making processes are studied with coverage in methods of analysis of quantitative information; judgment and appraisal of social, economic and human relations issues; and effective communication.

Areas of commonality among various public and private systems of institutional management constitute the core material of the administration major, while variations which distinguish management practices in different functional areas are subjects for optional specialization.

Requirements for the Bachelor's Degrees

Requirements for the bachelor of arts degree: (1) Five lower-division courses: Economics 200 and 202; Mathematics 110 or 120 or 190 (Mathematics 190 must be taken by all students with a concentration in management science); Administration 210 or Mathematics 350; and Administration 220; (2) eight upper-division courses: Administration 301, 302, 303, 304, 305, 306, 330 and 490; and (3) a six-course concentration, chosen from the following:

Accounting: Administration 344, 345, 372, 373 and two electives chosen from Administration 374, 426, 427, 428, 430, 438, 446, 568, 569, 575, Mathematics 190

Business Economics: Economics 322 and 370 and four electives chosen from Economics 360, 410, 421, 430, 445, 460, 490

Finance: Administration 340, 430, 432, 435 and two electives chosen from Administration 372, 426, 442, 575, Economics 410, 475, Mathematics 190

Information Management: Administration 309, 471, 472, 473 and two electives chosen from Administration 474, 476, 477, 478, 479, 481, Computer Science 125 or 140

Management: Administration 350 or 485, 451, 455 and three additional courses chosen with advisor's approval

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Management Science: Administration 309, 360, 400, 440, 465 and one elective chosen from Administration 340, 344, 435, 460, 471, Computer Science 140, 160, 250, Economics 490

Marketing: Administration 410, 440, 441 and three electives chosen from Administration 411, 412, 414, 442, 470, 530, Economics 302, Geography 420

Public Administration: Administration 380 (or Political Science 380), 480, 562, 563 and 10 units of electives chosen with advisor's approval

Small Business Management: Administration 411 or 412 or 414, 442, 445, 575 and two electives chosen from 411, 412, 414, 426, 427, 455, 457, 460

For public administration concentration, students should substitute Economics 475 for Administration 303; Administration 307 for Administration 305 and Political Science 428 for Administration 490.

The concentration electives may be chosen from the electives listed for each concentration or, with the prior approval of the department chair, the student may substitute other courses for these electives. Up to two of the concentration electives may be chosen from other academic disciplines with prior approval. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Requirements for the bachelor of science degree: (1) Five lower-division courses: Economics 200 and 202; Mathematics 110 or 120 or 190 (Mathematics 190 must be taken by all students with a concentration in management science); Administration 210 or Mathematics 350; and Administration 220; (2) eight upper-division courses: Administration 301, 302, 303, 304, 305, 306, 330 and 490; and (3) a nine-course concentration as follows:

Accounting: Administration 344, 345, 372, 373, 374 and four additional courses from one of the following specialty areas:

Administrative Data Processing: Administration 309, 400, 446, and one elective chosen from Administration 360, 438, 465, 569, 575, Mathematics 190

Internal Auditing: Administration 438, 446, 569, and one elective chosen from Administration 426, 568, 575, Mathematics 190

Management Accounting: Administration 400, 430, 446, and one elective chosen from Administration 360, 465, 569, 575, Mathematics 190

Public Accounting: Administration 426, 428, 438, and one elective chosen from Administration 427, 444, 446, 568, 575, Mathematics 190

Finance: Administration 340, 430, 432, 435, 442, 445, and three electives chosen from Administration 372, 373, 426, 427, 446, 575, Economics 410, 475

Information Management: Administration 309, 471, 472, 473, 474, 481 and three electives from Administration 476, 477, 478, 479, Computer Science 125 or 140

Management Science: Administration 309, 360, 400, 440, 460, 465, 471, Computer Science 140, and one elective chosen from Administration 340, 344, 435, Computer Science 160, 250, Economics 480, 490

With the prior approval of the department chair, the student may substitute courses from other academic disciplines for these electives. Students in planning

their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Transfer students who have completed a lower-division introductory sequence in accounting will have met the upper-division requirement of Administration 306.

Requirements for the minor in business administration: Economics 200; Administration 220, 301 or 302, 303, 305 and 306.

Requirements for the minor in public administration: Economics 200, Administration 302, 380 (or Political Science 380), 480, 562, 563 and Economics 475.

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration (M.B.A.) is a broad program designed to provide flexibility for the student to prepare for a career in administration in the private sector. The major objectives are to provide the student with the tools of decision-making, an understanding of the total administrative system, a capability for understanding interrelationships, and specialized training in a functional field of administration.

The program is open to all qualified students, regardless of undergraduate major. Students who do not have a background in the area of business administration can obtain this required capability by completing designated prerequisite courses or through individual study with competence demonstrated through credit by examination.

Admission to the M.B.A. Program

Although applications for admission to the College as a postbaccalaureate student are accepted at any time, the following schedule of dates has been established for actions by the School of Business and Public Administration in determining eligibility for classified graduate standing.

<i>Entry Quarter</i>	<i>Application Received by</i>	<i>Notification</i>
Winter, 1985	Sept. 1, 1984	Sept. 30, 1984
Spring, 1985	Dec. 1, 1984	Jan. 30, 1985
Fall, 1985	March 1, 1985	March 30, 1985
Winter, 1986	Sept. 1, 1985	Oct. 15, 1985

Note: The GMAT should normally be taken 8–10 weeks prior to the application deadline to insure that the scores will be reported before the application deadline.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the director of graduate studies, of the School of Business and Public Administration, for further information.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

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1. A bachelor's degree from an accredited college or university;
2. The following combination of grade-point average (GPA) and test score on the GMAT (Graduate Management Admission Test): GMAT score plus 200 times GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 1020;
3. Submission of GMAT score by the deadline for that term; if test result is not submitted on time, admission status will be unclassified postbaccalaureate;
4. Competence in the following prerequisite courses or their equivalents:

Administration 220.	Fundamentals of Business Data Processing
Economics 305.*	Intensive Introductory Economics
Administration 305.	Marketing Principles
Administration 330.	Legal Environment of Business
Administration 500.*	Management and Organization Behavior
Administration 503.*	Accounting and Financial Management
Administration 504 or	Mathematics 504.* Quantitative Tools for Management

Competence in the above prerequisite courses may be demonstrated by:

- a. Formal completion of the course or its equivalent
 - b. Credit by examination
 - c. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the school's graduate committee. (Students requesting waiver of any prerequisite courses must petition the graduate committee of the School of Business and Public Administration.)
5. Satisfaction of the College upper-division writing requirement.
 6. Academic motivation and personal qualifications demonstrated through submission of a 200–250 word statement of reasons for wishing to pursue the M.B.A. at California State College, San Bernardino and personal qualifications that will contribute to successful completion of the program.

No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of prerequisite courses that may be taken prior to advancement to classified status.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with the approval of the advisor, at least 15 quarter units of applicable graduate-level course work at the College, with a minimum grade-point average of 3.0;
3. Completed an approved graduate program plan in consultation with an M.B.A. advisor upon achieving conditionally classified or classified status.

* These four courses are intensive introductory courses taught at an accelerated pace and cover material otherwise available in two 300-level courses. Students who may have difficulty with accelerated courses should consider enrolling in the individual equivalent courses.

4. Secured approval of the School of Business and Public Administration and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade-point average of 3.0), with at least 35 units completed at the College;
2. At least 35 quarter units of 600-level course work;
3. At least 25 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and electives as outlined in the curriculum section;
5. A grade-point average of 3.0 (B) in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
6. Successful completion of a comprehensive examination over the student's concentration any fall or spring term after advancement to candidacy. Students will not be allowed to take the examination if GPA is below 3.0.
7. Any additional general requirements not cited above and listed on Pages 84 and 85.

Concentrations are available in finance, general management, industrial relations and personnel management, information management, marketing management, and operations management. Prior to advancement to candidacy, a student must select one of these concentrations to be tested on. A "no pass" (NP) designation will be entered on the student's transcript if he/she fails the examination. Students who do not receive a passing grade on the examination on the first attempt must petition the School of Business and Public Administration graduate committee for permission to retake the examination. The examination will be offered fall and spring quarters. Only students who are currently classified, have been advanced to candidacy and are not on probation may take the examination.

Requirements for the M.B.A. Degree

Requirements for the Master of Business Administration degree: Administration 601, 602, 605, 606, 607 and 685. In addition the student must complete 15 units of electives to be chosen from Administration 500–600 level courses in consultation with an advisor. At least one of the elective courses must be at the 600 level. Students may take up to two courses at the 500–600 level from related fields with the permission of the School of Business and Public Administration graduate committee. Students may petition this graduate committee to take up to two courses applicable to the concentration at the 300 or 400 level; for each course selected, they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree requirements.

The student should meet with an M.B.A. advisor upon achieving conditionally classified or classified status to declare an area of concentration and file an approved program plan.

Students may not take more than a total of 10 quarter units in any combination of Administration 575, Administration 590 and Administration 595.

Only conditionally classified and classified students (or those who have the consent of the school director of graduate studies) may enroll in 600-level courses.

The program may not include more than 10 quarter units in extension and transfer credit from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

MASTER OF PUBLIC ADMINISTRATION

The Master of Public Administration (M.P.A.) is a broad program designed to provide flexibility for the student to prepare for a career in administration in the public sector. The major objective is to provide the student with a generalist perspective of public administration, including tools of decision making, an understanding of the total public administrative system, and a capacity for understanding and being able to work within the public environment.

This degree is intended for graduate students and career people seeking to develop and/or strengthen academic and professional skills for the purpose of admission and/or advancement in the professional practice of public administration.

The program is open to all students, regardless of undergraduate major. Students who do not have a background or education in the area of public administration can obtain this required capability by completing designated prerequisite courses or through individual study with competency demonstrated by credit by examination.

Admission to the M.P.A. Program

Although applications for admission to the College as a postbaccalaureate student are accepted at any time, the following schedule of dates has been established for actions by the School of Business and Public Administration in determining eligibility for classified graduate standing.

<i>Entry Quarter</i>	<i>Application Received by</i>	<i>Notification</i>
Winter, 1985	Sept. 1, 1984	Sept. 30, 1984
Spring, 1985	Dec. 1, 1984	Jan. 30, 1985
Fall, 1985	March 1, 1985	March 30, 1985
Winter, 1986	Sept. 1, 1985	Oct. 15, 1985

Note: The GRE should normally be taken 8–10 weeks prior to the application deadline to insure that the scores will be reported before the application deadline.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the director of graduate studies of the School of Business and Public Administration for further information.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prereq-

uisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A bachelor's degree from an accredited college or university;
 2. The following combination of grade-point average (GPA) and test score on the GRE (Graduate Record Examination): GRE score plus 400 times GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) equals or exceeds 2100;
 3. Submission of GRE score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;
 4. Competence in the following prerequisite courses or their equivalents:

Administration 210.	Applied Business Statistics
<i>or</i>	
Mathematics 350.	Statistics: Hypothesis Testing and Estimation
Administration 220.	Fundamentals of Business Data Processing
Administration 302.	Human Behavior in Organizations
<i>or</i>	
Administration 500.*	Management and Organization Behavior
Administration 306.	Concepts of Accounting
<i>or</i>	
Administration 503.*	Accounting and Financial Management
Administration 575.	Internship in Administration
	<i>(Note: May be waived dependent upon related work experience.)</i>
Economics 202.	Principles of Macroeconomics
<i>or</i>	
Economics 305.*	Intensive Introductory Economics
- Competence in the above prerequisite courses may be demonstrated by:
- a. Formal completion of the course or its equivalent
 - b. Credit by examination
 - c. Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the school's graduate committee. (Students requesting waiver of any prerequisite courses must petition the graduate committee of the School of Business and Public Administration.)
5. Satisfaction of the College upper-division writing requirement.
 6. Academic motivation and personal qualifications that will contribute to successful completion of the program demonstrated through submission of a 200–250 word statement of reasons for wishing to pursue the M.P.A. at California State College, San Bernardino.

No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of undergraduate work that may be taken prior to advancement to classified status.

* These three courses are intensive introductory courses taught at an accelerated pace and cover material otherwise available in two 300-level courses. Students who may have difficulty with accelerated courses should consider enrolling in the individual equivalent courses.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with an advisor's approval, at least 15 quarter units of applicable graduate-level course work at the College, with a minimum grade-point average of 3.0;
3. Completed an approved graduate program plan in consultation with an M.P.A. advisor upon achieving conditionally classified or classified status.
4. Secured the approval of candidacy from the School of Business and Public Administration and the associate dean of graduate programs. (The student's advisor must be contacted for the completion of forms requesting advancement to candidacy.)

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, consistent with the program plan (with a grade-point average of 3.0), with at least 35 units completed at the College;
2. At least 25 quarter units of 600-level course work;
3. At least 25 quarter units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and an elective concentration as outlined in the curriculum section;
5. A grade-point average of 3.0 (B) in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
- 6a. Successful completion of the graduate research project. The graduate research project is defined as an advanced field study in public administration including both literary and empirical research. This requirement is met by the student's enrollment in Administration 695 during the last quarter of work in the program and completion of the project to the satisfaction of the student's advisor.

OR

- 6b. A 600-level course elective, taken with consent of advisor, plus successful completion of an integrative comprehensive examination which may be taken any fall or spring term after advancement to candidacy. Students with GPA below 3.0 will not be permitted to sit for the examination.

A "no pass" (NP) designation will be entered on the student's transcript if he/she fails the examination. Students who do not receive a passing grade may elect to: (a) repeat the examination, one additional time only, with the written approval of the School of Business and Public Administration graduate committee * or (b) complete Administration 695, Graduate Research Project. The examination will be offered fall and spring quarters. *Only students who are currently classified and are not on probation may take the examination.*

* NOTE: With the written approval of the School of Business and Public Administration graduate committee, students who do not receive a passing grade after repeating the examination may complete Administration 695, Graduate Research Project.

7. Any additional general requirements not cited above and listed on Pages 84 and 85.

Requirements for the M.P.A. Degree

Requirements for the Master of Public Administration degree:

Students choosing the graduate research project: Administration 562, 563, 564, 600, 603, 680 and 695. In addition the student must complete 10 units of electives to be chosen from Administration 500–600 level courses in consultation with an advisor. At least five of the elective units must be at the 600 level.

Students choosing the comprehensive examination: Administration 562, 563, 564, 600, 680 and completion of the comprehensive examination. In addition the student must complete 20 units of electives to be chosen from Administration 500–600 level courses in consultation with an advisor. At least 15 of the elective units must be at the 600 level. Students may take up to two courses at the 500–600 level from related fields with the permission of the School of Business and Public Administration graduate committee. Students may petition this graduate committee to take up to two courses applicable to the concentration at the 300 or 400-levels; for each course selected they will be required to enroll simultaneously in a two-unit independent study course directly related to the course selected. These independent study units cannot be applied to any graduate degree requirements.

Only conditionally classified and classified students (or those who have the consent of the director of graduate studies) may enroll in 600-level courses.

The program may not include more than 10 quarter units in extension and transfer credit from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Certificate Programs

The School of Business and Public Administration offers certificate programs for students who are interested in course work in a specific field, but not necessarily a degree. Currently available are certificates in: accounting, financial management, general business, human resources management, local government planning, marketing management and small business management. Details on the certificate programs and course requirements for each are found in the section Certificate Programs, Page 91.

210. APPLIED BUSINESS STATISTICS

An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics. Credit may not be received for more than one of the following courses: Administration 210, Psychology 210, Sociology 210 or Social Sciences 215. (5 units)

220. FUNDAMENTALS OF BUSINESS DATA PROCESSING

Introduction to business data processing for students with no previous background. Fundamental principles of business data processing utilizing illustrative cases of business applications. (5 units)

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301. MANAGEMENT PRACTICES

Application of systems approach to business activities, with emphasis on planning, production and control. Process of management is discussed as it affects operations. Emphasis on principles and relationships rather than specific techniques. (5 units)

302. HUMAN BEHAVIOR IN ORGANIZATIONS

Behavior of people in relation to managerial environment and the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management. (5 units)

303. FINANCIAL THEORY

Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. *Prerequisite: Administration 306.* (5 units)

304. QUANTITATIVE ANALYSIS FOR MANAGEMENT

Introduction to mathematical tools used in administrative problem analysis. Emphasis is on the application of deterministic and stochastic models to managerial decision making. *Prerequisite: Mathematics 110 or 120.* (5 units)

305. MARKETING PRINCIPLES

Marketing functions including products, channels, pricing and promotion. (5 units)

306. CONCEPTS OF ACCOUNTING

Development and use of basic accounting information for management analysis, decision-making, planning and control relating to operations. (5 units)

307. PUBLIC RELATIONS IN THE PUBLIC SECTOR

Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations. (5 units)

309. INFORMATION MANAGEMENT

Application of computer systems in organizations. Covers the topics of information systems planning, information forecasting, information technology and information processing. *Prerequisite: Administration 220.* (5 units)

330. LEGAL ENVIRONMENT OF BUSINESS

Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system. (5 units)

340. MANAGERIAL ACCOUNTING

Accounting information systems used by management. May not be counted toward fulfilling requirements of the accounting concentrations. *Prerequisite: Administration 306.* (5 units)

344. COST ACCOUNTING FUNDAMENTALS

Cost accounting concepts, objectives and systems. *Prerequisite: Administration 306.* (5 units)

345. COST ACCOUNTING AND CONTROL

Theories and practice relating to cost accumulation and analysis for management planning and control. *Prerequisites: Administration 304 and 344, or equivalents.* (5 units)

350. ADMINISTRATIVE COMMUNICATIONS

Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments. (5 units)

355. MANAGEMENT OF ADMINISTRATIVE CONFLICT

Emphasis on development of conflict, theories of administrative conflict and methods of resolving such conflict. *Prerequisites: Administration 301 and 302.* (5 units)

360. STATISTICAL ANALYSIS FOR MANAGEMENT

Application of probabilistic models and statistical decision theory to decision-making within the enterprise; techniques for optimization of administrative decisions. *Prerequisites: Mathematics 190, Administration 304, and one of the following: Administration 210 or Mathematics 350.* (5 units)

372. INTERMEDIATE ACCOUNTING

In-depth study of the fundamentals of accounting and their applications to the short-term segments of the statement of financial position. Includes study of pronouncements of professional accounting organizations and the Securities and Exchange Commission. *Prerequisites: Administration 306 and successful completion of the intermediate accounting placement test. Students may petition if they are unable to take, or if they fail, the placement test.* (5 units)

373. PROBLEM AREAS IN INTERMEDIATE ACCOUNTING

Continuation of Administration 372 with applications to the long-term segments of the statement of financial position. *Prerequisite: Administration 372 with a grade of "C" or better.* (5 units)

374. REPORTING ISSUES IN INTERMEDIATE ACCOUNTING

Continuation of Administration 372 and 373 with applications to financial reporting issues. *Prerequisite: Administration 373.* (5 units)

380. SURVEY OF PUBLIC ADMINISTRATION

An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Political Science 380. Students may not receive credit for both.) (5 units)

400. QUANTITATIVE DECISION METHODS

Quantitative methods of analysis used in solution of administrative problems, including linear programming and calculus applications. *Prerequisites: Mathematics 190, Administration 304, and one of the following: Administration 210 or Mathematics 350.* (5 units)

402. STUDIES IN ORGANIZATIONAL BEHAVIOR

Review and presentation of selected areas of behavioral science research and its application to management practices. Selected subjects may include: motivation, communication, change and leadership. *Prerequisite: Administration 302.* (5 units)

410. CONSUMER BEHAVIOR

Nature and determinants of consumer attitudes, consumption and purchasing behavior. *Prerequisite: Administration 305.* (5 units)

411. RETAILING

History, development, organization and management of retail institutions. Emphasis is on retail store operations, such as location, layout, planning, control of budgets, personnel, pricing and customer services. *Prerequisite: Administration 305.* (5 units)

412. ADVERTISING

Stimulation of market demand through advertising media, including printed messages, radio and television, developing the advertising appeal, selecting the media, placing copy and measuring results. Consideration of social consequences of advertising. *Prerequisites: Administration 305 and 410.* (5 units)

414. SALES AND SALES MANAGEMENT

Introduction to sales principles and development of sales techniques. Activities and organization of the sales department, management of the sales force. *Prerequisite: Administration 305.* (5 units)

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426. FEDERAL TAXATION: INDIVIDUALS

Provisions of tax law pertaining to the individual. *Prerequisites: Administration 306 and senior standing.* (5 units)

427. FEDERAL TAXATION: CORPORATIONS AND FIDUCIARIES

Concepts and principles of federal taxation as they apply to business enterprises and fiduciaries, i.e., estates and trusts. *Prerequisite: Administration 426.* (5 units)

428. ACCOUNTING FOR COMBINED CORPORATE ENTITIES

A comprehensive study of business combinations. Emphasis on accounting problems associated with mergers, acquisitions and technical problems of preparing consolidated financial statements. *Prerequisite: Administration 373.* (5 units)

430. FINANCIAL POLICIES AND SYSTEMS

Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. *Prerequisite: Administration 303.* (5 units)

432. FINANCIAL INTERMEDIARIES

Structure, operations, portfolio compositions and problems of financial intermediaries and markets. *Prerequisite: Administration 303.* (5 units)

435. INVESTMENT ANALYSIS

Analysis and forecasting of security markets, industry studies, portfolio construction. *Prerequisite: Administration 303.* (5 units)

438. AUDITING

Function of the auditor, viewed from the perspective of professional ethics. SEC standards of reporting, auditor's legal liabilities. Techniques include internal control, sampling, standards of statement presentation, use of the computer as an auditing tool. Case studies emphasize design of audit programs, working papers and audit reports. *Prerequisite: Administration 373.* (5 units)

440. MARKETING RESEARCH

Analysis of markets, survey methodology, sample design, quantitative techniques in market research projects. *Prerequisites: Administration 304 and 305; and one of the following: Administration 210 or Mathematics 350.* (5 units)

441. TECHNIQUES FOR MARKETING

Strategies and techniques in marketing management. Student is required to apply prior material from the marketing curriculum to contemporary marketing problems. Emphasis is on decision-making in such matters as product, pricing, distribution and promotional strategies. *Prerequisites: Administration 305 and 410.* (5 units)

442. SMALL BUSINESS MANAGEMENT

Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. (5 units)

444. PROFESSIONAL ACCOUNTING LAW

Advanced topics in contracts, commercial paper, property, legal aspects of organizations, administrative law, trusts and insurance. Emphasis is on legal problems encountered in public accounting. *Prerequisite: Administration 330.* (5 units)

445. FINANCIAL SYSTEMS MANAGEMENT

Financial and accounting information systems with emphasis on the development and implementation of computer-based systems. Design of systems to produce information and financial reports for planning and control. *Prerequisites: Administration 303 and 306.* (5 units)

446. MICROCOMPUTERS IN ACCOUNTING

The application of minicomputers and microcomputers in accounting information systems, with emphasis on implementation for small business. *Prerequisites: Administration 210, 220, 304 and 373.* (5 units)

451. ORGANIZATION AND MANAGEMENT THEORY

Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. *Prerequisites: Administration 301 and 302.* (5 units)

455. HUMAN RESOURCES MANAGEMENT

Policies relating to human resources; manpower planning, personnel selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. *Prerequisite: Administration 302.* (5 units)

456. PSYCHOLOGY OF HUMAN RESOURCES

Review of research in application of psychology to selection, evaluation and training of human resources. Topics include fair employment legislation, job analysis methodologies, merit evaluation, interviewing techniques and psychometric methods. *Prerequisites: Administration 455 or Psychology 355; and one of the following: Administration 210 or Mathematics 350.* (5 units)

457. INDUSTRIAL AND LABOR RELATIONS

Social forces leading to collective employee action in relation to labor legislation and collective bargaining. Utilizes current development, case law and bargaining simulation. *Prerequisite: Administration 455.* (5 units)

458. EMPLOYMENT POLICIES AND PRACTICES

Evaluation of employer-employee relationships. Utilizes case analysis for the study of policy in the areas of collective bargaining, selection and placement, affirmative action, job design and manpower utilization. *Prerequisites: Administration 455 and senior standing.* (5 units)

460. PRODUCTION PLANNING AND CONTROL

Analysis of production resources; measurement and evaluation of man-machine systems; forecasting, planning and scheduling; quality and quantity control. *Prerequisites: Administration 301 and 304.* (5 units)

465. OPERATIONS RESEARCH

Principles of management science in executive decision-making. Algebraic and geometric representations of optimization models in management. Problems in production, marketing, finance, purchasing and personnel administration. *Prerequisite: Administration 400.* (5 units)

470. MANAGEMENT OF INTERNATIONAL OPERATIONS

Cultural, economic, legal, political and institutional factors influencing international operations. Organizational, marketing, financial, production and labor problems, policies and practices in the international arena. (5 units)

471. INFORMATION SYSTEMS PLANNING

Analysis of an organization's information systems needs. Information systems needs are developed according to the mission, goals, objectives and business plans. *Prerequisites: Administration 301, 309.* (5 units)

472. INFORMATION TECHNOLOGY

Study of the hardware and software necessary to have a complete information system. Topics include distributed data systems, personal computers, data terminal devices, communication media, networking, operating systems and software needs. *Prerequisites: Administration 309, 471.* (5 units)

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473. INFORMATION FORECASTING

Analysis of computerized forecasting techniques for accounting, finance, statistics and quantitative methods. *Prerequisites: Administration 210, 303, 304, 306, 309.* (5 units)

474. DATA BASE MANAGEMENT

Treatment of the use of information retrieval and storage techniques. Includes sequential and random files organization, on-line systems and the application of data base programs. *Prerequisites: Administration 309, 472.* (5 units)

476. SYSTEMS ANALYSIS AND DESIGN

Analysis and design specifications of an organization; topics include flow charting, programming, interviewing, data flows, systems specifications and management involvement. *Prerequisites: Administration 309, 471, 472; Computer Science 125 or 140.* (5 units)

477. DECISION SUPPORT SYSTEMS

Analysis of executive information systems; topics include the strategy, framework, design, implementation and evaluation of decision-support systems. *Prerequisites: Administration 309, 476.* (5 units)

478. INFORMATION PROBLEM SOLVING

Structured approaches to complex problem-solving techniques; topics include cybernetics, frame analysis, synectics, brainstorming and similar techniques. *Prerequisite: Administration 309.* (5 units)

479. STUDIES IN INFORMATION MANAGEMENT

Research and discussion of current topics, problems, research, employment opportunities, and developments in the computer and information management fields. *Prerequisite: Administration 309.* (5 units)

480. ORGANIZATIONAL PROBLEMS IN PUBLIC ADMINISTRATION

Administrative and management problems as they exist within public organizations and agencies. (5 units)

481. INFORMATION PROCESSING

Analysis of text editing, word processing, graphics and report generation in the office information systems. Emphasis is placed on adapting software packages to various computer systems. *Prerequisite: Administration 309.* (5 units)

485. WOMEN IN ADMINISTRATION

Problems and issues of current concern regarding women in management. Particular emphasis on role of women in managerial decision-making process. (5 units)

490. ADMINISTRATIVE STRATEGY AND POLICY

An integrative, problem-solving approach to problems which confront the administrator. Topics are explored by utilizing skills and techniques developed in previous course work. *Prerequisites: senior standing and administration core.* (5 units)

495. EXPOSITORY WRITING FOR ADMINISTRATION

Writing related to business and public administration including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. May not be counted for fulfilling concentration requirements for any degree program offered by the School of Business and Public Administration. No more than one of the Expository Writing courses (Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495) may be taken for credit. Graded A,B,C/NC. *Prerequisites: English 101 and a minimum of 90 quarter (60 semester) units of college credit.* (5 units)

500. MANAGEMENT AND ORGANIZATION BEHAVIOR

Intensive introduction to purpose of management as it affects operations and the behavior of people in the organization's environment. Analysis of organizational activities of planning, production and control as well as selected behavioral concepts. No credit will be awarded to students who have had Administration 301 and 302. May not be counted toward fulfilling requirements for any degree program offered by the School of Business and Public Administration. (5 units)

503. ACCOUNTING AND FINANCIAL MANAGEMENT

Intensive introduction to applied topics and techniques in accounting and financial management. Development and use of basic financial information for management analysis, decision-making, planning and control. No credit will be awarded to students who have had Administration 303 and 306. May not be counted toward fulfilling requirements for any degree program offered by the School of Business and Public Administration. (5 units)

504. QUANTITATIVE TOOLS FOR MANAGEMENT

Intensive introduction to applied topics in statistics, algebraic functions and linear programming for graduate students. No credit will be awarded to students who have had all of the following: Mathematics 110 or 120, Administration 210 or Mathematics 150 or 350, and Administration 304. May not be counted toward fulfilling requirements for any degree program offered by the School of Business and Public Administration or the School of Natural Sciences. (Also offered as Mathematics 504. Students may not receive credit for both.) (5 units)

521. PRINCIPLES OF PLANNING

Introduction to local and regional community planning; includes methods of adoption and interorganizational relationships. (5 units)

530. BUSINESS AND SOCIETY

Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems. *Prerequisite: senior or graduate standing.* (5 units)

532. HUMAN FACTORS IN SYSTEM DEVELOPMENT

Principles of human factors design applied to the user-system interface in business, industrial, computer, control and information management systems. *Prerequisites: one of the following: Administration 210, Mathematics 350, Psychology 210.* (5 units)

551. METHODS OF ORGANIZATIONAL CHANGE

Review of important change methodologies including modeling, operant conditioning, organizational behavior modification, attitude change and organization development (OD). *Prerequisite: Administration 302 or 500.* (5 units)

557. PUBLIC SECTOR LABOR RELATIONS

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. *Prerequisite: Administration 457 or Administration 562.* (5 units)

562. PUBLIC PERSONNEL ADMINISTRATION

Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. *Prerequisite: Administration 302.* (5 units)

563. GOVERNMENTAL BUDGETING

Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. (5 units)

564. LOCAL PUBLIC ADMINISTRATION

Administrative characteristics and problems of public management in the urban area, including city, county, school and special district organization and functions. (5 units)

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568. GOVERNMENTAL FINANCIAL MANAGEMENT AND ACCOUNTING

An introduction to financial management practices in the public sector with emphasis on controls and fund accounting. *Prerequisite: Administration 306.* (5 units)

569. THEORY AND PRACTICE OF INTERNAL AUDITING

Internal auditing in both the public and private sectors. Emphasis on audit organization, professional standards, internal audit philosophy, audit processes and other topics. *Prerequisite: Administration 306.* (5 units)

575. INTERNSHIP IN ADMINISTRATION

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. *Prerequisite: consent of instructor and school.* (5 units)

590. SEMINAR IN ADMINISTRATION

An intensive study of some phase of administration to be developed by the instructor. May be repeated for credit as topics change. (5 units)

595. INDEPENDENT STUDY

Special topics involving library and/or field research. A total of 10 units in Administration 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the School of Business and Public Administration on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 or 5 units.)

600-level courses are open to postbaccalaureate and graduate students only.

600. FOUNDATIONS OF PUBLIC ADMINISTRATION

Advanced concepts of public administration, its role in society, management of public business, survey of the major functional fields and selected problems. *Prerequisite: Administration 302 or 500.* (5 units)

601. ORGANIZATION THEORY AND BEHAVIOR

A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. *Prerequisites: Administration 301 and 302.* (5 units)

602. FINANCIAL PLANNING AND CONTROL

Current developments and controversies in accounting and financial controls for government and industry. Analysis of financial management in the context of recent technological, sociological and environmental changes. *Prerequisites: Administration 303 and 306.* (5 units)

603. RESEARCH METHODS IN ADMINISTRATION

Principles of research design, development of research instruments, data accumulation and analysis of significant data. Critique of sample research studies from the literature and a research study conducted by the student. *Prerequisite: Administration 210.* (5 units)

605. MARKETING MANAGEMENT

Problem-solving and decision-making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. *Prerequisites: Administration 305 and Economics 305.* (5 units)

606. ACCOUNTING FOR MANAGERIAL DECISION-MAKING

Study and application of the concepts and techniques used by management for planning and controlling business activities. *Prerequisite: Administration 503.* (5 units)

607. OPERATIONS MANAGEMENT

Integration and application of analytical techniques used in manufacturing and service industries. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. *Prerequisites: Administration 504 (or Mathematics 504) and Administration 301 or 500.* (5 units)

610. DECISION THEORY FOR MANAGEMENT

Behavioral and quantitative approaches to administrative decision making. *Prerequisites: Administration 601 and 607.* (5 units)

612. PRODUCTIVITY MEASUREMENT IN THE PUBLIC SECTOR

Analysis of effective and efficient mobilization of agency resources. Includes examination of the environment, techniques, variables and perspectives in applying productivity measurements, particularly at the local level. (5 units)

614. MANAGEMENT OF PRIVATE NONPROFIT ORGANIZATIONS

Analyzes the specific problems of management in private nonprofit organizations, including planning, personnel, financial and policy issues. (5 units)

621. MARKETING STRATEGY

Process by which a company develops a strategic marketing plan. Emphasis is on the role of marketing in the preparation of corporate strategic plans, views of the consumer/customer, potential effects of the environment, consideration of marketing information and control systems. *Prerequisite: Administration 605.* (5 units)

622. CONSUMER AND ORGANIZATIONAL BUYING BEHAVIOR

Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions. *Prerequisite: Administration 605.* (5 units)

623. ADVANCED MARKETING RESEARCH

Marketing research functions and activities and their relationships to product/service management, media choice decision, research instruments and data collection, strategy and tactical decisions. *Prerequisites: Administration 504 or equivalents and Administration 605.* (5 units)

625. ADVERTISING MANAGEMENT

Role of advertising in its relationship to other marketing functions, including a detailed study of advertising techniques. Emphasis is on client-agency relationship, government relations and the role of marketing management in determining and executing advertising and promotional policy. *Prerequisite: Administration 605.* (5 units)

630. PRODUCTION SYSTEMS DEVELOPMENT

Production function (both products and services) in management and its importance as a subsystem of administrative operations. *Prerequisite: Administration 607.* (5 units)

641. PERSONNEL ADMINISTRATION

Analysis of specific areas and problems in administration of personnel systems and policies. Includes employment planning; personnel recruitment, selection and development; performance appraisal; training; compensation. *Prerequisite: Administration 210 or Mathematics 350 or Administration 504 (or Mathematics 504).* (5 units)

642. COMMUNICATION AND INTERPERSONAL PROCESSES

Various theories of interpersonal processes and communication as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. *Prerequisite: Administration 601.* (5 units)

643. ORGANIZATIONAL DESIGN

Examination of organizational structure and design. Emphasis on current research and applications. *Prerequisite: Administration 601.* (5 units)

644. INDUSTRIAL RELATIONS

Analysis of industrial relations systems in major industries, collective bargaining institutions, processes, legal environment and problems. (5 units)

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645. ADVANCED FINANCIAL SYSTEMS MANAGEMENT

Design and implementation of information systems for the development of financial and managerial reports for the corporate manager. Emphasis on simulation models for planning and control. *Prerequisite: Administration 503.* (5 units)

650. MANAGEMENT INFORMATION AND CONTROL SYSTEMS

Study and design of management information systems, their implementation and the integration of their operations within the organization. *Prerequisites: Administration 301, 304 and 602.* (5 units)

651. FINANCIAL INSTITUTIONS AND MARKETS

Analysis of financial institutions and markets. Term structure of interest rates, portfolio theory and flow-fund analysis, deposit-type intermediaries, insurance, pension funds and investment companies. (5 units)

653. INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT

Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis and portfolio management. *Prerequisite: Administration 303 or 503.* (5 units)

654. INTERNATIONAL FINANCE

Study of international financial environment and problems in operation of multinational enterprises with major focus on theory and practice of foreign exchange transactions, money and capital markets, investment decisions, current asset management and comparative financial systems. *Prerequisite: Administration 602.* (5 units)

672. ADMINISTRATIVE REGULATION

Discretionary authority of regulatory agencies, the manner in which power is exercised by such agencies, and the administrative structure of the regulatory process. (5 units)

680. PUBLIC POLICY ANALYSIS

An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision making. *Prerequisites: Administration 562, 563, 600, 603.* (5 units)

685. CORPORATE POLICY ANALYSIS

Corporate policy and strategy formulation, integrating the various business functions, e.g., marketing, accounting and finance. *Prerequisite: completion of, or concurrent enrollment in, all other core course(s) for the Master of Business Administration.* (5 units)

695. GRADUATE RESEARCH PROJECT

Required field study in public administration, including both literary and empirical research. *Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and school.* (5 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of school.* (0 units)

AMERICAN STUDIES

*Department of History
Administration Building, Room 130
887-7239*

While American studies is not specifically designed to prepare students for careers, the major is an appropriate educational program for those contemplating fields in which a comprehensive understanding of American culture is useful, for example, law, library work and government. It can also be used as preparation for graduate study.

The degree program provides a basic set of requirements and also allows considerable flexibility and expression of individual interests. Students must complete a core of upper-division courses which establish the general context for American studies. The primary purpose of the core's design is to enable the student to understand the sequential development of both American history and literature. Therefore, these requirements are chronological rather than topical in organization. Finally, both fields are synthesized in two courses, American Studies 300 and 501.

Requirements for the Bachelor's Degree

Requirements for the major:

Core Courses (40 units):

ENGLISH 430. AMERICAN LITERATURE I

ENGLISH 432. AMERICAN LITERATURE II

ENGLISH 436. AMERICAN LITERATURE III

plus

Three courses from:

HISTORY 350. THE AMERICAN COLONIES, 1607-1783

HISTORY 351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783-1840

HISTORY 354. CIVIL WAR AND RECONSTRUCTION

HISTORY 356. THE UNITED STATES, 1877-1917

HISTORY 357. THE UNITED STATES, 1917-1945

HISTORY 359. THE UNITED STATES SINCE 1945

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plus

AMERICAN STUDIES 300. INTRODUCTION TO AMERICAN STUDIES

AMERICAN STUDIES 501. SEMINAR IN AMERICAN STUDIES

Electives (20 units):

Students are required to take additional courses from at least three departments from the following list. No more than two may be lower division.

ANTHROPOLOGY 305. NEW WORLD PREHISTORY

ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA

ART 311. ART OF THE UNITED STATES TO THE END OF THE 19th CENTURY

ART 413. MODERN ART OF THE UNITED STATES

ECONOMICS 370. THE AMERICAN ECONOMY

ENGLISH 140. SURVEY OF AMERICAN LITERATURE

ENGLISH 580. SEMINAR IN AMERICAN LITERATURE

HISTORY 200. UNITED STATES HISTORY TO 1877

HISTORY 201. UNITED STATES HISTORY, 1877 TO THE PRESENT

***HISTORY 350. THE AMERICAN COLONIES, 1607–1783**

***HISTORY 351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783–1840**

***HISTORY 354. CIVIL WAR AND RECONSTRUCTION**

***HISTORY 356. THE UNITED STATES, 1877–1917**

***HISTORY 357. THE UNITED STATES, 1917–1945**

***HISTORY 359. THE UNITED STATES SINCE 1945**

HISTORY 370A. CALIFORNIA TO 1865

HISTORY 370B. CALIFORNIA 1865–PRESENT

HISTORY 421. ECONOMIC HISTORY OF THE UNITED STATES

HISTORY 556. FOREIGN RELATIONS OF THE UNITED STATES

HISTORY 560. HISTORY OF THE AMERICAN WEST

HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

MUSIC 360. MUSIC IN THE UNITED STATES

POLITICAL SCIENCE 203. AMERICAN GOVERNMENT

POLITICAL SCIENCE 314. AMERICAN POLITICAL THOUGHT

POLITICAL SCIENCE 325. AMERICAN FOREIGN POLICY

POLITICAL SCIENCE 328. JUDICIAL PROCESS

POLITICAL SCIENCE 410. AMERICAN CONSTITUTIONAL LAW

POLITICAL SCIENCE 411. THE BILL OF RIGHTS

POLITICAL SCIENCE 570. POLITICS OF THE UNITED STATES ECONOMY

THEATRE ARTS 461. AMERICAN DRAMA

** These courses may be used as electives if they have not already been used for the core.*

Honors in the Major: Students majoring in American studies are eligible to receive honors in American studies at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the History Department secretary.

300. INTRODUCTION TO AMERICAN STUDIES

Concepts and definitions essential to an interdisciplinary approach to American civilization and an application of these to some aspect of American experience. (5 units)

501. SEMINAR IN AMERICAN STUDIES

Special topics in some aspect of American civilization suitable for the particular background of the student. May be repeated for credit as topics change. Open to American studies majors with senior standing and to other qualified students upon consent of instructor. (5 units)

ANTHROPOLOGY

Department of Anthropology
Student Services Building, Room 139
887-7281

The study of anthropology promotes an understanding of self and all mankind by exploring man's nature at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Man's physical and cultural evolution, the distribution and significance of racial differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, archaeology and prehistory, and linguistics.

Requirements for the Bachelor's Degree

The Anthropology major involves a two-track system, Track A (general anthropology) and Track B (museum studies). Both tracks require a minimum of 40 upper-division units in anthropology; Track B requires an additional 30 units of course work in related fields.

Requirements for Track A: Anthropology 511; five units from Anthropology 300-325 (archaeology/physical anthropology); five units from Anthropology 351-361, 390 (culture areas); five additional units from Anthropology 300-325, 351-361, 390; 15 units from Anthropology 330, 331, 335, 375, 456-595 (theory); five additional upper-division units in anthropology (or a related field as approved by an advisor).

Requirements for Track B: Anthropology 375; five units from Anthropology 300-325 (archaeology/physical anthropology); 10 units from Anthropology 351-361, 390 (culture areas); 10 units from Anthropology 330, 331, 335, 456-550 (theory); 10 units of Anthropology 575 (internship); Administration 306 and 380 (cross-listed as Political Science 380); Art 201 and 203; Computer Science 120; one elective to be chosen from Administration 480, Art 380, Art 384, Geography 301.

Anthropology 100 and 102 or an equivalent background are ordinarily required for enrollment in upper-division anthropology courses.

Requirements for a minor in anthropology: Anthropology 100, 102 and 20 upper-division units selected in consultation with an advisor.

100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

Man's biological and social evolution through time. (5 units)

102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY

Structure and dynamics of man's cultural experience; comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies. (5 units)

300. ARCHAEOLOGY

History of archaeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory. (5 units)

301. OLD WORLD PREHISTORY

The prehistory and protohistory of Eurasia and Africa, emphasizing the growth of culture and the origin and spread of civilization. (5 units)

305. NEW WORLD PREHISTORY

The prehistory of North, Middle and South America, emphasizing the peopling of the New World, the earliest American Indian cultures and later regional developments. (5 units)

310. ANCIENT CIVILIZATIONS OF THE NEW WORLD

The origin, spread and decline of pre-Columbian civilizations in the New World. (5 units)

315. ARCHAEOLOGY OF THE SOUTHWEST AND CALIFORNIA

The prehistoric cultures of California and the American Southwest, their origins, characteristics and relationships. (5 units)

324. PRE-COLUMBIAN ART

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as Art 324. Students may not receive credit for both.) (5 units)

325. HUMAN VARIATION AND THE CONCEPT OF RACE

An inquiry into past and present interpretations of the significance of human physical differences. (5 units)

330. CROSS-CULTURAL CHILD-REARING PRACTICES

Cross-cultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture. (5 units)

331. ANTHROPOLOGY OF HUMAN DEVELOPMENT

A cross-cultural perspective on human development and the processes of personality formation and cultural transmission. (5 units)

335. CROSS-CULTURAL PERSPECTIVES ON CRIME AND DEVIANCE

Cross-cultural examination of behavior regulation in human societies. Specific topics include cultural definition of crime and deviance, conflict resolution, processes of control and the distribution of authority and power. (5 units)

WORLD CULTURES (Anthropology 351-361)

Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general discussion of physical anthropology, language affiliations and culture, history of the area, the native populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

351. INDIANS OF NORTH AMERICA

(5 units)

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352. INDIANS OF THE SOUTHWEST

(5 units)

354. CULTURES OF MEXICO AND CENTRAL AMERICA

(5 units)

356. CULTURES OF SOUTH AMERICA

(5 units)

360. PEOPLES OF AUSTRALIA

(5 units)

361. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA

(5 units)

375. MUSEUM METHODS

Introduction to the techniques of museum work, and to the history, theory and practice of museums. Includes curatorial methods, and the care, preservation, storage and exhibition of museum specimens. (5 units)

390. SELECTED TOPICS IN ANTHROPOLOGY

An anthropological examination of a selected topic. May be repeated for credit as topics change. (5 units)

456. ADVANCED PHYSICAL ANTHROPOLOGY: PRIMATE STUDIES

Taxonomy and fossil record of the nonhuman primates. Primate behavior as a basis for the reconstruction of prehistoric human behavior. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.* (5 units)

457. ADVANCED PHYSICAL ANTHROPOLOGY: PALEOANTHROPOLOGY

The analysis of the anatomical and behavioral evidence of fossil man and earlier hominid forms. Discussion of the problems involved in reconstructing the direction of human physical and cultural evolution. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.* (5 units)

460. LANGUAGE AND CULTURE

Analysis of languages stressing the relationship of language to patterns of human behavior. (5 units)

470. CULTURE CHANGE AND DYNAMICS

An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials. (5 units)

475. CULTURAL ECOLOGY

An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches. (5 units)

480. MAGIC, RELIGION AND SCIENCE

A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments. (5 units)

490. SYSTEMS OF SOCIAL ORGANIZATION

A comparative description and analysis of social integration in human societies. (5 units)

492. ECONOMIC ANTHROPOLOGY

An anthropological approach to the analysis of systems of production and exchange in nonindustrial societies. (5 units)

493. URBAN ANTHROPOLOGY

Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization. (5 units)

511. METHODS AND THEORY IN ANTHROPOLOGY

An in-depth examination of the development and current status of major methodological and theoretical orientations in anthropology. *Prerequisite: senior or graduate standing or consent of instructor.* (5 units)

550. FIELDWORK IN CULTURAL ANTHROPOLOGY

Supervised design, execution and analysis of an ethnographic field project. *Prerequisite: consent of instructor.* (5 units)

575. INTERNSHIP IN ANTHROPOLOGY

Supervised work in public or private organizations (for example, museums) emphasizing practical applications of anthropological concepts. May be repeated once for credit. Graded credit/no credit. *Prerequisites: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (5 units)

595. INDEPENDENT STUDY

Special topics involving library and/or field research. A total of 10 units in Anthropology 595 may be applied toward graduation. Only five of those units may be applied to the major. *Prerequisites: a minimum overall grade-point average of 3.0; consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units.)

ART

Accredited by the National Association of Schools of Art and Design

Department of Art
Visual Arts Building, Room 123
 887-7459

The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Department of Art.

A student may either major or minor in art, and eventually chooses one or more specific areas of concentration. The choice is governed by the student's experiences with various media, concepts and techniques, but this is not a rigid choice as new interactions among these elements are constantly being developed.

Four plans are available for students working for the Bachelor of Arts in Art and two options are available for a minor in art. The studio areas of concentration currently offered are: ceramics, crafts, graphic design, drawing, glass, jewelry and metalsmithing, painting, photography, printmaking, sculpture, weaving and fiber construction, and woodworking and furniture design.

In addition to their courses in art, students are urged to seek electives in related areas of creative expression. Suggested possibilities include acting, creative writing, music seminar in electronic composition.

Art majors under Plans I and II are required in the senior year to arrange a review of representative examples of studio work completed while in residence at this College.

Students in either Plan I or II interested in the history of art may use the three upper-division electives in art in that area.

Five-unit studio courses meet for eight scheduled hours per week and require an additional seven hours per week to be arranged on an individual basis. For 2½-unit courses the requirements are four scheduled hours and 3½ hours to be arranged. Field trips are required in most art history courses and several studio courses as well. Also, in many courses students are required to pay for materials used.

Requirements for the Bachelor's Degree

Requirements for the major (Plan I): Art 201, 203, 204, 205, 210A and B, 599; two courses in the history of art, two upper-division studio courses in a single area of concentration and three upper-division electives in the department. This program is designed for students seeking a liberal education with an emphasis

in art, and is recommended for those who wish to teach at the secondary school level.

Requirements for the major (Plan II, single studio area of concentration): Art 201, 203, 204, 205, 210A and B; three courses in the history of art, four upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies.

Requirements for the major (Plan III, art history area of concentration): Art 201, 203, 204, 205, 210A and B, 510; two upper-division studio art courses; one course chosen from each of the following five groups of art history courses: (Art 306, 308, 316), (Art 321, 327), (Art 311, 423), (Art 328, 329, 413, 424), (Art 314, 317A, B and C, 324); and two additional courses chosen from the courses in the five groups listed above; and three quarters of one foreign language. Students are strongly advised to learn French and German. This program is designed for the student with a strong professional interest in art history or museum work who may wish to pursue graduate studies.

Requirements for the major (Plan IV, graphic design area of concentration): Art 201, 203, 204, 205, 210A and B; two courses in art history; Art 380 (to be taken at least twice), 382A, B, C, D, E, F and G; Art 384, 386 and 575.

Minor in studio art: Art 201, 203, 204; three courses in art history; and one upper-division studio course.

Minor in art history: six courses in art history. In most cases, students who have completed the minor in art history and three terms of a foreign language or equivalent proficiency can easily complete the requirements of a humanities major as well.

Certificate Program

The Department of Art offers a certificate program in Business Skills for the Artist. Details concerning this program are found on Page 92.

200. STUDIES IN ART

Exploration of the form and content of art. Cannot be counted toward fulfillment of requirements in the major. (5 units)

201. FOUNDATION STUDIO IN ART

Organization of two-dimensional phenomena with an emphasis on the interaction of color. (5 units)

203. FOUNDATION STUDIO IN ART

The organization of three-dimensional phenomena. Materials fee required. (5 units)

204. DRAWING AND LIFE DRAWING

Exploration in techniques of drawing for purposes of creative expression related to object and figure placement in space. (5 units)

205. TOOLS AND MATERIALS

Introduction to the safe use of tools and materials commonly used by the artist. (2 units)

Art 201, 203, 204 and 205 represent a foundation group that can be taken in any sequence. This group or its equivalent must be completed before enrollment in upper-division studio courses—with certain exceptions as noted in course descriptions.

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210. WESTERN ART HISTORY

Development of western art and its historical context.

A. Prehistoric Times through the Middle Ages (5 units)

B. Renaissance to the Present (5 units).

301. TOPICS IN STUDIO ART FOR NON-MAJORS

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit. (2½ units)

302. TOPICS IN STUDIO ART FOR NON-MAJORS

Introduction to and experimentation in selected areas of art. Not open to art majors. May be repeated for credit. (5 units)

303. DESIGN STUDIES

Study and experimentation in creative problem solving and various techniques in visual design. (5 units)

304. ADVANCED DRAWING AND LIFE DRAWING

Further exploration in techniques of drawing for purposes of creative expression. A maximum of 25 units may be applied toward the major. *Prerequisite: Art 204 or consent of instructor.* (5 units)

306. GREEK AND ROMAN ART

Architecture, sculpture, painting and decorative arts of ancient Greece and Rome. (5 units)

308. MEDIEVAL ART

Art and architecture of Europe from the 8th through the 13th centuries. (5 units)

311. ART OF THE UNITED STATES TO THE END OF THE 19TH CENTURY

Development of American art from the Colonial period to c. 1900. Significant examples from the fields of architecture, sculpture, painting and the decorative arts. (5 units)

314. THE ART OF INDIGENOUS PEOPLES

Art of the native cultures of Africa, the South Pacific and North America; post-conquest and contemporary folk art in Central and South America. (5 units)

316. ARTS OF THE ANCIENT NEAR EAST AND EGYPT

History and development of the architecture, sculpture and decorative arts of the Ancient Near East and Egypt. (5 units)

317. TOPICS IN FAR EASTERN ART

History and development of styles of eastern art from pre-historic times.

A. India (5 units)

B. China (5 units)

C. Japan (5 units)

321. RENAISSANCE ART

Art and architecture of northern and southern Europe in the 15th and 16th centuries. (5 units)

324. PRE-COLUMBIAN ART

Art and architecture of pre-Columbian cultures with an emphasis on Mexico and Peru. (Also offered as Anthropology 324. Students may not receive credit for both.) (5 units)

327. BAROQUE AND ROCOCO ART

Art and architecture of 17th and 18th century Europe. (5 units)

328. MEXICAN ART

Art and architecture of Mexico from the Conquest to the present. (5 units)

329. CHICANO ART

Art and culture of Mexican Americans. (5 units)

335. PAINTING

Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. Materials fee required. A maximum of 25 units may be applied toward the major.

Prerequisites: Art 201 and 204. (5 units)

340. SCULPTURE

Approaches to sculpture using a variety of materials, tools, processes and concepts. A maximum of 25 units may be applied toward the major. Materials fee required. *Prerequisite: Art 203 or consent of instructor.* (5 units)

354. CERAMICS I

Procedures of hand building, throwing, slip casting and glazing as practiced by the studio potter and the ceramic sculptor. Materials fee required. (5 units)

357. ADVANCED CERAMICS

Advanced work in ceramics. A maximum of 20 units may be applied toward the major. Materials fee required. *Prerequisites: Art 203 and 354 or consent of instructor.* (5 units)

360. PRINTMAKING

Creative research into studio techniques in relief, intaglio, collographic, planographic and stencil processes. A maximum of 25 units may be applied toward the major. Materials fee required.

Prerequisites: Art 201 and 204. (5 units)

368. WOODWORKING AND FURNITURE DESIGN I

Explorations in the use of hand and power tools in woodworking. (5 units)

369. ADVANCED WOODWORKING AND FURNITURE DESIGN

Advanced work in woodworking and furniture design. A maximum of 20 units may be applied toward the major. *Prerequisite: Art 368.* (5 units)

374. WEAVING AND FIBER CONSTRUCTION

Design and execution of woven and nonwoven textile structures using a variety of techniques. Exploration in the use of various fibers in the form of yarns, rope, cord and cane, and the possibilities of weaving without a standard loom. A maximum of 25 units may be applied toward the major. Materials fee required. (5 units)

375. GLASS

Techniques of blown, stained, molded, neon and flame glass used in the formation of functional and sculptural objects. A maximum of 25 units may be applied toward the major. Materials fee required.

Prerequisite: Art 203 or consent of instructor. (5 units)

376. JEWELRY AND METALSMITHING

Design and fabrication of jewelry and hollow ware including the techniques of bending, forming, soldering and casting. A maximum of 25 units may be applied toward the major. Materials fee required. *Prerequisite: Art 203 or consent of instructor.* (5 units)

380. COMMUNICATIONS DESIGN

Design concepts as applied to visual communication, including graphic design and layout, packaging, corporate identity, symbology, display and environmental graphics. A maximum of 25 units may be applied toward the degree. Materials fee required. *Prerequisites: Art 201 and 203 or consent of instructor.* (5 units)

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382. COMMUNICATIONS SPECIALTIES

Design of labels, structure, display and production of three-dimensional containers for industrial and commercial usage, and consumer consumption. Course may be repeated as topics change. Materials fee required. *Prerequisite:* Art 380.

- A. Display and Tradeshow Design (2½ units)
- B. Illustration (2½ units)
- C. Typography/Production (2½ units)
- D. Publication Design (2½ units)
- E. Mark and Logo Design (2½ units)
- F. Packaging Design (2½ units)
- G. Seminar in Communications Design (2½ units)

383. PHOTOGRAPHY I

Creative research in the study of photography, to include content, design, technique and individual problems. Materials fee required. (5 units)

384. ADVANCED PHOTOGRAPHY

Advanced work in photography. A maximum of 20 units may be applied toward the major. Materials fee required. *Prerequisite:* Art 383 or consent of instructor. (5 units)

386. AUDIO AND VIDEO MEDIA

Introduction to the theories and techniques governing the use of video, photographic and audio recording equipment in graphic production. (5 units)

395. ART IN THE CLASSROOM

Providing art experiences through the use of varied art media in the elementary school. May not be counted toward fulfilling requirements of courses in the art major. (5 units)

397. EXPLORATION IN ART EDUCATION

Uses of a variety of art materials, processes and concepts for the purposes of creative expression. Designed for the nonart major and the elementary school teacher. May not be counted toward fulfilling requirements of courses in the art major. (5 units)

410. STUDIES IN ART HISTORY

Study in a selected period in the history of art. May be repeated for credit. (5 units)

413. MODERN ART OF THE UNITED STATES

Art in America in the 20th century. (5 units)

423. NINETEENTH CENTURY EUROPEAN ART

Art of 19th-century Europe; from neo-Classicism through post-Impressionism. (5 units)

424. MODERN EUROPEAN ART

Twentieth-century art and architecture in Europe from 1900 to the present. (5 units)

483. STUDIES IN STUDIO ART

Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. *Prerequisites:* Art 201, 203 and 204 or consent of instructor. (5 units)

484. STUDIES IN STUDIO ART

Study and experimentation in a selected area of art. May be repeated for credit as topics change. Materials fee required. *Prerequisites:* Art 201, 203 and 204 or consent of instructor. (2½ units)

510. COLLOQUIUM IN ART

Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. *Prerequisite:* consent of instructor. (5 units)

575. COMMUNICATIONS DESIGN INTERNSHIP

Supervised work in a professional design office or for a public or private organization. May be repeated once for credit. *Prerequisite: consent of department.* (5 units)

595. INDEPENDENT STUDY

Studio and/or library research conducted under the direction of a faculty member. A total of ten units of Art 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1–6 units).

599. SENIOR ART PROJECT

Preparation of senior portfolio and senior show. *Prerequisites: senior status in final quarter of residence and consent of instructor.* (2½ units)

BILINGUAL/CROSS-CULTURAL STUDIES

The courses listed below are intended to be used by students who wish to complete simultaneously the B.A. in Liberal Studies and the requirements for the multiple subjects credential with the bilingual/cross-cultural option (see Page 262). For further information concerning credential programs, contact the School of Education.

The College offers a certificate in bilingual/cross-cultural studies: Spanish/English. For further information, see Page 92.

ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA

ANTHROPOLOGY 460. LANGUAGE AND CULTURE

ART 328. MEXICAN ART

ART 329. CHICANO ART

EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT

FOREIGN LANGUAGES 450. (SPANISH 450.) LITERATURE IN TRANSLATION: MEXICAN

HISTORY 390. HISTORY OF MEXICO

HISTORY 391. CHICANO HISTORY

HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT

HUMANITIES 460. CULTURE STUDIES: MEXICO

INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

MUSIC 351. MEXICAN AND CHICANO MUSIC

POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SPANISH 202. GRAMMAR AND COMPOSITION

SPANISH 204. INTRODUCTION TO LITERARY TEXTS

SPANISH 302. THEORY AND PRACTICE IN COMPOSITION

SPANISH 440. MEXICAN LITERATURE

BIOLOGY

Department of Biology
Biological Sciences Building, Room 217
887-7353

The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine, medical technology and graduate programs; and it also can serve for direct entry into public school teaching and a variety of positions in industrial, research and governmental organizations.

Field trips are a normal and required part of a number of courses.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should refer to Page 77 of this bulletin and consult with a departmental advisor.

Requirements for the Bachelor's Degrees

Requirements for the bachelor of arts degree: Mathematics 120 or 200 or 350; Physics 121, 225, 122 and 226 or 221, 225, 222 and 226; Chemistry 215-216 and 225-226 or 321-322-323; Biology 200-201-202; and six upper-division courses in biology (which may include Chemistry 436-437) totaling no less than 30 units.

Requirements for the bachelor of science degree: Mathematics 120 or 200 or 350; Physics 121, 225, 122 and 226 or 221, 225, 222 and 226; Chemistry 215-216-217 and 225-226 or 321-322-323; Biology 200-201-202; four courses selected from Biology 400 or 423, 424 or 431, 440 or 476, 450 or 452; and six upper-division elective courses in biology (which may include Chemistry 436-437) totaling no less than 30 units.

All courses leading to either a B.A. or a B.S. are to be selected in consultation with a departmental advisor.

Requirements for a minor in biology: Biology 200-201-202 and three additional upper-division courses in biology totaling no less than 15 units; Chemistry 215-216; and one of the following: Physics 100, 121 and 225, 221 and 225; Mathematics 120, 200, 350.

Departmental Honors: Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements: achieve a minimum GPA of 3.5 for all courses satisfying the requirements for the major (as defined above), take at least five courses in the major at the College, complete satisfactorily Biology 595 and complete satisfactorily the departmental comprehensive examination. Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to exceptional students who fail to meet the above requirements, but who have in the judgment of the department brought distinction upon themselves and the department in some other appropriate manner.

MASTER OF SCIENCE IN BIOLOGY

The Master of Science in Biology is designed to provide the flexibility required to develop specific course programs and acceptable thesis research proposals based upon the individual graduate student's interests and background. The general goal of the program is to provide the student with opportunity for improvement of competence, development of the ability to continue self-directed study, and development of intellectual responsibility in preparation for professional leadership in biology.

While the graduate program in biology provides training in various biological concentrations, the unique environmental setting of the San Bernardino campus allows special emphasis on desert and mountain ecological studies.

Admission to the M.S. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college;
2. Completion of an undergraduate major in biology or associated fields (e.g. microbiology, botany, zoology, chemistry);
3. Adequate preparation in chemistry at the college level, including courses in organic chemistry; quantitative analysis is recommended;
4. Two full-term courses in physics at the college level;
5. A minimum of one full-term course in mathematics at the college level.

Students who do not meet these criteria may be admitted as conditionally classified graduate students and will remain in this status until deficiencies have been removed.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology, if a thesis project is selected;
3. Completed at least 15 quarter units of applicable course work as a graduate

student at this College, with the approval of the Department of Biology graduate committee, and with a minimum grade-point average of 3.0;

4. Gained a recommendation for advancement to candidacy from the Department of Biology graduate committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the Department of Biology graduate committee and/or the major advisor;
6. Gained final approval of the program and of the candidacy itself by the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with no less than 32 completed in residence at this college and with at least 24 units gained from 600-level courses in biology.
2. Advancement to candidacy for the degree and approval of the specific program of courses.
3. A grade-point average of 3.0 (B) in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in all courses in the program.
4. Completion of a final oral examination concluded by acceptance of the thesis; or satisfactory completion of the alternative.
5. Any additional general requirements not cited above and listed on Pages 84–85.

Department Graduate Committee and Major Advisor

The Department of Biology graduate committee consists of three or more members. This committee has general supervision over the work of students progressing toward the master's degree, and will determine whether applicants are adequately prepared for graduate study in biology.

Each new graduate student should consult with the chair of the department graduate committee for advice in selection of the appropriate graduate program (thesis or alternative). Students choosing to complete a thesis are responsible for selecting their major advisor and, in turn, must be accepted by the major advisor. The major advisor in consultation with the student will develop a program of specific courses and an acceptable thesis research proposal based upon the student's interests and preparation. The major advisor will direct the thesis research. The program of courses and the thesis topic, as well as any subsequent modifications of these, are subject to approval by the department graduate committee and, in turn, the associate dean of graduate programs.

Students following the alternative program should consult directly with the Department of Biology graduate committee.

Thesis and Final Oral Examination

Students electing this plan must conduct an original research study and from these efforts write a thesis acceptable to the major advisor, the department graduate committee and the associate dean of graduate programs. The student

should consult the Department of Biology for details on preparing the thesis manuscript.

A final oral examination consisting primarily of discussion of the thesis and thesis research is required. The official examiners are the major advisor, the department graduate committee, and a representative from outside the Department of Biology chosen by the associate dean of graduate programs. Successful completion of the final oral examination includes acceptance of the thesis by the examiners.

Available research areas include:

- Developmental biology
- Ecology
- Genetics
- Molecular biology
- Parasitology
- Physiology
- Population biology

For possible combinations of areas or other areas consult with the Department of Biology.

Alternative to the Thesis

Students pursuing this alternative are required to satisfactorily complete six advanced topics courses selected from four areas (molecular or physiology, plant biology or ecology or parasitology, evolution or biosystematics, and genetics or development) with at least one course selected from each of the four areas. In addition, students must pass the Biology Department comprehensive examination. This requirement serves to provide breadth of background at an advanced level for the student not electing a thesis. Satisfactory completion of the alternative program must be certified by the Department of Biology graduate committee before graduation from the degree program is possible.

Requirements for the M.S. Degree, Plan I

A student must complete successfully no less than 24 units at the 600 level, including nine units of thesis research (Biology 699A,B,C), one seminar (Biology 690) and five courses selected from Biology 600 or 624, 620 or 670 or 675, 680 or 664, and 650 or 660, with at least one course from each area. Remaining credit-hour requirements are to be fulfilled by successful completion of biology or related courses at the 600, 500 and 400-levels selected as part of the candidate's official program.

Requirements for the M.S. Degree, Plan II

As an alternative to the thesis, a student must demonstrate acceptable proficiency in no less than 25 units at the 600-level, including two seminars and eight courses selected from Biology 600 or 624, 620 or 670 or 675, 680 or 664, and 650 or 660, with at least one course from each area, and the Department of Biology comprehensive examination. See the Department of Biology for details. Upon completion of all course work, the student must attend the Biology Depart-

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ment colloquium held twice a quarter until the comprehensive examination has been passed and the student certified for graduation. Remaining credit-hour requirements are to be fulfilled by successful completion of biology or related courses at the 600, 500, and 400-levels selected as part of the candidate's official program.

100. TOPICS IN BIOLOGY

Major generalizations of biology with particular emphasis on man's interaction with the biosphere. Lecture and three hours of laboratory. (5 units)

200. BIOLOGY OF THE CELL

Introduction to cellular structure and function. Lecture and three hours of laboratory. *Prerequisite: one year of high school chemistry or equivalent.* (5 units)

201. BIOLOGY OF ORGANISMS

Introduction to the structural and functional attributes of organisms. Lecture and three hours of laboratory. (5 units)

202. BIOLOGY OF POPULATIONS

Introduction to the principles of ecology, heredity and evolution. Lecture and three hours of laboratory. (5 units)

220. PRINCIPLES OF MICROBIOLOGY

Morphology, physiology and classification of bacteria, yeasts, molds, rickettsiae and viruses. Bacteriology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Lecture and six hours of laboratory. *Prerequisite: one lower-division biology course.* (6 units)

222. HUMAN ANATOMY AND PHYSIOLOGY

Survey of structure and function of human organ systems with emphasis on homeostasis. May not be counted toward fulfilling requirements in the biology major. Lecture and three hours of laboratory. *Prerequisite: one lower-division biology course.* (5 units)

310. SCIENCE AND HUMAN PHENOMENA

Integrated course emphasizing the dynamic aspects of biology, chemistry and physics as they relate to the function of the human body and biomedical instrumentation. Lecture and three hours of laboratory. May not be counted toward fulfilling requirements in the biology major. *Prerequisites: a college course in biology and consent of biology department chair prior to registration.* (5 units)

314. BIOLOGY OF HUMAN SEXUALITY

Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, venereal disease, sexual intercourse and response. Lecture only. *Prerequisite: one lower-division biology course.* (5 units)

315. INTRODUCTION TO HUMAN EMBRYOLOGY

An introductory course in human development. Emphasis on normal developmental sequences from fertilization to birth and on factors which can modify these normal sequences. Lecture only. *Prerequisites: Biology 100 or 201 or 202.* (5 units)

316. GENETICS OF MAN

Principles of heredity as they apply to man. Lecture only. May not be counted toward fulfilling requirements in the biology major by students already receiving credit for Biology 423. *Prerequisite: one lower-division biology course.* (5 units)

319. LOCAL FLORA

Identification of the flora of the immediate San Bernardino area with a consideration of taxonomic principles. Field collections, lecture and six hours of laboratory. *Prerequisite: one lower-division biology course.* (6 units)

321. EVOLUTION

Darwin, the modern view of evolution and the implications of evolution in other disciplines. Lecture only. *Prerequisite: one lower-division biology course.* (5 units)

331. BIOLOGY OF THE INVERTEBRATES

The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

335. ENTOMOLOGY

A study of the evolution, anatomy, classification and habits of insects and related arthropods. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

342. BIOLOGY OF THE CHORDATES

Consideration of structural, physiological and ecological changes in the evolution of the chordate groups with an emphasis on comparative vertebrate anatomy. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

346. NATURE AND EVOLUTION OF ANIMAL BEHAVIOR

Interrelationship between the ecology and behavior of animals, with particular reference to evolutionary aspects. *Prerequisites: Biology 100 or 201 or 202.* (5 units)

352. BIOLOGY OF PLANTS

Lecture and six hours of laboratory. *Prerequisite: Biology 201*

A. Evolution, structure and physiology of lower plants and fungi. (6 units)

B. Comparative morphology and phylogeny of higher plants. (6 units)

C. Biosystematics and classification of vascular plants. (6 units)

360. FUNCTIONAL ANATOMY OF PLANTS

Tissues and tissue aggregates in vascular plants, stressing the functional attributes of structure, with laboratory study of living and preserved plant material and prepared slides. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

370. SYMBIOSIS

The nature and principles of biological interactions with a survey of various types of relationships such as commensalism, mutualism, parasitism and competition. Lecture only. *Prerequisite: Biology 201.* (5 units)

371. PARASITOLOGY

Study of the nature and principles of parasitism with a survey of various types of animal parasites. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

376. BASIC FOUNDATION IN ENDOCRINOLOGY

Vertebrate endocrine system, with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Designed for students interested in medicine and related areas. Lecture only. *Prerequisites: Biology 200 and 201.* Recommended: organic chemistry and vertebrate physiology. (5 units)

378. MEDICAL AND ECONOMIC ENTOMOLOGY

Survey of medically and economically important species harmful and beneficial to man. Lecture only. (5 units)

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400. MOLECULAR BIOLOGY

A basic course in biological chemistry with emphasis on gene function. May not be counted for credit by students who have received credit for Chemistry 437. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202 and Chemistry 226 or 323.* (6 units)

423. GENETICS

Principles of classical and modern genetics including an introduction to population genetics. Lecture and six hours of laboratory. *Prerequisite: one year of biology, including Biology 202 or equivalent.* (6 units)

424. COMPARATIVE ANIMAL PHYSIOLOGY

A comparative analysis of the physiological mechanisms and processes of organisms with emphasis upon trends of evolutionary specialization. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202. Pre- or corequisite: Chemistry 226 or 323.* (6 units)

431. COMPARATIVE PLANT PHYSIOLOGY

Analysis of water relationships and nutrient requirements of green plants, their metabolism and controlling mechanisms involved in their growth and development. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202. Pre- or corequisite: Chemistry 226 or 323.* (6 units)

440. PRINCIPLES OF DEVELOPMENT

A comparative analysis of patterns and processes of development in organisms, with emphasis upon the role of genetic and biochemical mechanisms. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202.* (6 units)

450. ECOLOGY

An analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Lecture, field studies and six hours of laboratory. *Prerequisites: Biology 201 and 202.* (6 units)

452. PHYSICAL AND CHEMICAL LIMNOLOGY

Physical and chemical characteristics of lakes and streams, as related to the activities of the natural biota, environmental factors and the geological substratum. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202 and Chemistry 217.* Recommended: a field biology or geology course. (6 units)

460. BIOGEOGRAPHY

Investigation of plants and animals according to their environmental and spatial relationships. Biogeographic theory and regions will be examined; agents of biotic distribution and human influence will be noted. Lecture only. (Also offered as Geography 460. Students may not receive credit for both.) *Prerequisites: upper-division standing, Geography 103 or Earth Science 101, and Biology 201 or 202; or consent of instructor.* (5 units)

474. HEMATOLOGY

Basic principles and current laboratory procedures used in the study of blood. Morphological and chemical characteristics of normal and abnormal blood tissue will be emphasized. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202 and a course in vertebrate physiology.* (6 units)

476. IMMUNOBIOLOGY

Antigens, antibodies and the immune response. Lecture and six hours of laboratory. *Prerequisites: Biology 200-201-202 and Chemistry 226 or 323.* Recommended: vertebrate physiology and molecular biology. (6 units)

522. THE GENETICS AND ECOLOGY OF POPULATIONS

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Lecture only. *Prerequisite: Biology 423.* Recommended: Biology 450. (5 units)

595. INDEPENDENT STUDY

Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in Biology 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and department approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* Consent must be obtained no later than the advisement period preceding the quarter of enrollment. All students will be required to attend the Biology Department colloquium called by the department chair twice a quarter until their projects are completed. (Credit to be arranged: 1 to 6 units)

600-level courses are open to postbaccalaureate and graduate students only.

600. ADVANCED TOPICS IN MOLECULAR BIOLOGY

An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

620. ADVANCED TOPICS IN PLANT BIOLOGY

An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. (2½ units)

624. ADVANCED TOPICS IN PHYSIOLOGY

An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

650. ADVANCED TOPICS IN GENETICS

An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

660. ADVANCED TOPICS IN DEVELOPMENT

An in-depth consideration of selected research areas in developmental biology. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

664. BIOSYSTEMATICS

Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used. Lecture only. *Prerequisites: Biology 423 and one taxonomy-based course; e.g. Biology 319, 331, 335, 342, 352A, 352B or 352C.* Recommended: Mathematics 350. (2½ units)

670. ADVANCED TOPICS IN ECOLOGY

Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. *Prerequisite: Biology 450 or equivalent.* (2½ units)

675. ADVANCED TOPICS IN PARASITOLOGY

An in-depth consideration of selected research areas in parasitology. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

680. ADVANCED TOPICS IN EVOLUTION

Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. (2½ units)

690. GRADUATE SEMINAR IN BIOLOGY

Selected topics and reviews of current investigations in the fields of biology. Required of all graduate students in biology. May be repeated for credit as topics change. (2½ units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master of science degree. Students enrolled in this course have full use of College facilities. To retain their classified standing in the master's program, students enrolled in this course must attend the Biology Department colloquium called by the department chair twice a quarter until their projects are completed and their theses accepted. *Prerequisites: advancement to candidacy and consent of department.* (0 units)

699. THESIS RESEARCH AND THESIS

Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. May be repeated for a maximum of 9 units. To retain their classified standing in the master's program, students enrolled in this course must attend the Biology Department colloquium called by the department chair twice a quarter until their projects are completed and their theses accepted. *Prerequisite: advancement to candidacy.* A. (3 units) B. (3 units) C. (3 units)

CHEMISTRY

Accredited by the American Chemical Society

Department of Chemistry
Physical Sciences Building, Room 319
887-7344

The Department of Chemistry provides: (1) undergraduate training in chemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees; (2) appropriate courses for the teacher credential program; (3) fundamental chemical science courses required by students majoring in related fields such as physics and biology; and (4) an understanding of the achievements and contributions of chemistry as a science.

The Bachelor of Science in Chemistry satisfies the requirements for certification by the American Chemical Society.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in chemistry should refer to Page 77 of this bulletin and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business, and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

Requirements for the Bachelor's Degrees

Requirements for the bachelor of arts degree: Chemistry 215-216-217, 321-322-323, 455-456, 475, 590 and five additional upper-division units in chemistry; Physics 121, 225, 122, 226 or Physics 221, 225, 222, 226; and Mathematics 200-201-202.

Requirements for the bachelor of science degree: Chemistry 215-216-217, 321-322-323, 455-456, 475, 590 and 20 additional upper-division units in chemistry (one chemistry course must include laboratory work; an upper-division course in mathematics or physics selected in consultation with the departmental advisor may also be included); Physics 221, 225, 222, 226 and 223; Mathematics 200-201-202-203 and one applied mathematics course selected in consultation with the departmental advisor; foreign language (two terms of German or Russian or equivalent proficiency). A comprehensive examination covering the major field of study will be required in the senior year.

Requirements for a minor in chemistry: Chemistry 215-216-217, 225-226 or 321-322-323, 455, and 456 or 475; Mathematics 200-201-202; and Physics 121, 225, 122 and 226 or 221, 225, 222 and 226.

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Departmental Honors: A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements: at least a 3.5 average in all chemistry course work taken at the College with a minimum being five chemistry courses, at least a 3.0 average on the comprehensive examinations, and an A in Chemistry 595 or another demonstration of ability to do independent work in chemistry.

100. CHEMISTRY IN THE MODERN WORLD

Examination of chemistry, its use by modern man and its value to contemporary society. Designed primarily for students with no high school background in chemistry. Lecture and two hours of laboratory. (5 units)

205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY

Basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Lecture and three hours of laboratory. Recommended preparation: one year of high school algebra. (5 units)

206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY

Introduction to the chemistry of organic compounds. Lecture and three hours of laboratory. *Prerequisite:* Chemistry 205. (5 units)

207. FUNDAMENTALS OF CHEMISTRY III: BIOCHEMISTRY

Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Lecture and three hours of laboratory. *Prerequisite:* Chemistry 206. (5 units)

215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND CHEMICAL BONDING

The first of a three-course sequence in general chemistry and quantitative analysis. Topics in this course include atomic and molecular structure, chemical bonding, states of matter and solutions. Lecture and six hours of laboratory. Recommended preparation: one year of high school chemistry and three years of high school mathematics. (6 units)

216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL REACTIONS

Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Lecture and six hours of laboratory. *Prerequisite:* Chemistry 215 or consent of instructor. (6 units)

217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE ANALYSIS

Gravimetric and volumetric analysis, chemical equilibria, modern instrumental methods and radioanalytical techniques. Lecture and six hours of laboratory. *Prerequisite:* Chemistry 216 or consent of instructor. (5 units)

225. ORGANIC CHEMISTRY I

Descriptive discussion of carbon compounds, including modern concepts of structure, reaction mechanisms and reactivity. Major emphasis is placed on organic compounds of biological interest. Lecture and six hours of laboratory. For nonchemistry majors only. *Prerequisite:* Chemistry 216 or consent of instructor. (6 units)

226. ORGANIC CHEMISTRY II

Continuation of Chemistry 225. Lecture and six hours of laboratory. *Prerequisite:* Chemistry 225 or consent of instructor. (6 units)

321. PRINCIPLES OF ORGANIC CHEMISTRY I

Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Lecture and six hours of laboratory. *Prerequisite:* Chemistry 216 or consent of instructor. (5 units)

322. PRINCIPLES OF ORGANIC CHEMISTRY II

Continuation of Chemistry 321. Lecture and six hours of laboratory. *Prerequisite: Chemistry 321 or consent of instructor.* (5 units)

323. PRINCIPLES OF ORGANIC CHEMISTRY III

Continuation of Chemistry 322, including special topics in heterocyclic compounds, fats, carbohydrates, and amino acids and proteins. Lecture and six hours of laboratory. *Prerequisite: Chemistry 322 or consent of instructor.* (5 units)

392. SCIENTIFIC GLASSBLOWING

Principles and skills in the construction, modification and repair of scientific glass apparatus. May not be counted toward requirements for the chemistry major. (2 units)

436. BIOCHEMISTRY I

Chemistry of proteins, carbohydrates, lipids, and other classes of biomolecules; the kinetics, mechanism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabolism. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, and 226 or 323.* (5 units)

437. BIOCHEMISTRY II

Biochemical processes that yield and utilize energy: metabolism of carbohydrates, lipids, amino acids, purines and nucleic acid biosynthesis. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, 226 or 323, and 436 or consent of instructor.* (5 units)

455. PHYSICAL CHEMISTRY I

Thermodynamics and the properties of solutions. Lecture and six hours of laboratory. *Prerequisites: Chemistry 216, Mathematics 202 and Physics 122 and 226 or 222 and 226 or consent of instructor.* (6 units)

456. PHYSICAL CHEMISTRY II

Phase equilibria, electrochemistry, transport properties, reaction rates and mechanisms, and quantum mechanics. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)

475. INORGANIC CHEMISTRY

Inorganic compounds and reactions. Special emphasis on group theory, structure, kinetics, and thermodynamic principles. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)

500. TOPICS IN CHEMISTRY

Lecture course on an advanced chemistry topic such as: bio-physical chemistry, history of chemistry, literature of chemistry, natural products chemistry, polymer chemistry, synthetic organic chemistry, theoretical organic chemistry or quantum mechanics. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

501. ADVANCED LABORATORY TECHNIQUES

Advanced laboratory course on a subject such as organic or inorganic chemistry. May be repeated for credit as topics change. *Prerequisites: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor.* (2½ units)

545. ADVANCED ANALYTICAL CHEMISTRY

Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Lecture and six hours of laboratory. *Prerequisites: Chemistry 226 or 323 and 456 or consent of instructor.* (6 units)

576. ADVANCED INORGANIC CHEMISTRY

Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. *Prerequisites: Chemistry 456 and 475 or consent of instructor.* (5 units)

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590. CHEMISTRY SEMINAR

Topics of current chemical interest, presented by students, faculty and guest speakers. May be taken once for credit toward the major requirements for graduation. *Prerequisite: Chemistry 323 or 455.* (1 unit)

595. INDEPENDENT STUDY

Laboratory and/or library research conducted under the direction of a faculty member. A total of six units in Chemistry 595 may be applied toward the major. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

COMMUNICATION

School of Humanities

Pfau Library Building, Room 239

887-7441

The College will introduce a new B.A. in Communication in the fall of 1984. In addition to taking a core of lower and upper-division courses, the student will select a concentration from one of five areas: individualized program, organizational communication, professional writing, media production and Hispanic media.

Specific courses in the communication program also are offered as part of the general education program (Communication 120) or as free electives.

A certificate in communication skills also will be offered by the department.

Full information on this new program is available from the coordinator of the program or the School of Humanities Office.

120. ORAL COMMUNICATION

Basic characteristics of human communication including such elements as self-awareness, verbal and non-verbal language, values and perception. These elements will be applied to various forms of oral communication settings, for example, dyadic, serial, small group and public speaking. (May not be taken by students who have received credit for Theatre Arts 120.) (5 units)

242. THEORY AND PRACTICE OF NEWSPAPER JOURNALISM

Practice in writing and editing will be emphasized. Consideration of the press in its social and historical context. May not be taken for credit by students who have received credit for English 370. *Prerequisite: English 101.* (5 units)

243. JOURNALISM PRACTICUM

Practical application of journalism skills. To be taken concurrently with, or subsequent to, Communication 242. May be repeated for credit for a total of not more than 6 units. No more than a total of 6 units of English 372 and Communication 243 may be used to satisfy graduation requirements. Graded credit/no credit. (2 units)

300. ELEMENTS OF PUBLIC SPEAKING

Principles and techniques of public platform speaking. Analysis and performance. (May not be taken by students who have received credit for Theatre Arts 300.) (5 units)

COMPUTER SCIENCE

*Department of Computer Science
Pfau Library Building, Room 43
887-7368*

Computer science is a relatively new profession concerned with information, its representation, storage, structures, display and the processes by which it is transformed. It deals with various kinds of information: numeric, alphabetic, pictorial, verbal, tactile, and sensory and that requiring instrumentation for detection. This discipline is concerned with effective ways to store, retrieve and display information, algorithms to transform information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and minimizing the cost of these processes and philosophical foundations of such mechanical intelligence.

The major in computer science is designed to prepare students for careers in the growing field of computing. It consists of a core of courses providing a broad knowledge of various aspects of computing, plus a selection of elective courses which allow further training in one of several areas in the computer field.

Requirements for the Bachelor's Degree

Requirements for the bachelor of science degree: Computer Science 131, 132, 240 or 250, 260, 310, 311, 320, 330, 331, 450; 10 units of upper-division electives in computer science (not including 595) or courses selected in consultation with program coordinator; Mathematics 200, 201, 203, 331 and 335. Mathematics 340 and 341 are strongly recommended.

Access is available on campus to a wide variety of modern computing equipment, including large scale batch and timesharing systems, minicomputers and microcomputers.

Certificate Program

The College offers a certificate program in computers and programming. Details concerning this program are found on Page 94.

120. INTRODUCTION TO COMPUTING

Survey of computers, applications, programming and other aspects of computer science. Elementary programming exercises in BASIC will be assigned. (5 units)

125. INTRODUCTION TO BASIC PROGRAMMING

Introduces the Beginners All-purpose Symbolic Instruction Code (BASIC). Experience in use of time-sharing mode of a computer gained by exercises from variety of applications. No previous computer background required. (2½ units)

131. COMPUTER PROGRAMMING I

Introduction to high-level computer language and programming methods. Techniques and style of designing, coding and documenting programs. (2½ units)

132. COMPUTER PROGRAMMING II

A continuation of Computer Science 131. Development of larger and more complex programs including file processing. *Prerequisite: Computer Science 131.* (5 units)

140. INTRODUCTION TO FORTRAN PROGRAMMING

Introduction to FORTRAN language in which the student will analyze, formulate, code, punch or type and debug a series of programs related to everyday life. A knowledge of BASIC is strongly recommended. May not be counted for credit by students who have received credit for Computer Science 240. (5 units)

160. PASCAL PROGRAMMING

Introduction to PASCAL language in which the student will analyze, formulate, code and debug a series of programs from a variety of fields. *Prerequisite: Computer Science 125 or 140.* (5 units)

240. SCIENTIFIC FORTRAN

FORTRAN language with emphasis on computer solution of problems reducible to algebraic models and elementary numerical methods. *Prerequisites: Computer Science 131 and Mathematics 200.* (5 units)

250. COBOL PROGRAMMING

COBOL language with emphasis on applications to data processing including file processing techniques. *Prerequisite: Computer Science 125 or 131 or 140.* (5 units)

260. ASSEMBLY LANGUAGE PROGRAMMING

Number and character representation, instruction set and format, addressing modes, indexing, program structure and linking methods. *Prerequisite: Computer Science 132 or 140 or 240.* (5 units)

290. HIGH LEVEL LANGUAGE

Introduction to a high level programming language, such as FORTH, APL or RPG. May be repeated for credit as topics change. *Prerequisite: Computer Science 125 or 132 or 140.* (5 units)

310. COMPUTER SYSTEM ORGANIZATION I

Introduction to hardware: block diagrams, processors, memory systems, instruction sets and peripherals. Survey of peripheral hardware options: storage, input, output and communications. Lecture and three hours of laboratory. *Prerequisite: Computer Science 132 or 140 or 240.* (5 units)

311. COMPUTER SYSTEM ORGANIZATION II

Detailed study of processors: registers, arithmetic and logic units, busses, subroutine and interrupt handling, elementary logic design and circuitry. Practical work with a small hands-on computer. Lecture and three hours of laboratory. *Prerequisite: Computer Science 310.* (5 units)

320. COMPARATIVE STUDY OF PROGRAMMING LANGUAGES

Introduction to formal language specification. Analysis and comparison of data and control structures in most commonly used programming languages. *Prerequisites: Computer Science 132 and either 240, 250 or 290.* (5 units)

330. DATA STRUCTURES AND ALGORITHMS I

Data structures such as trees, stacks, lists and queues, as well as their storage allocation and associated algorithms. *Prerequisite: Computer Science 132.* (5 units)

331. DATA STRUCTURES AND ALGORITHMS II

Comparison of methods for handling, sorting and searching files. *Prerequisites: Computer Science 330 and Mathematics 335.* (5 units)

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420. COMPUTER GRAPHICS

Review of available hardware and software. Detailed study of concepts, data structures and algorithms needed for interactive two-dimensional graphics; techniques for three-dimensional graphics; animation. *Prerequisites: Computer Science 310 and 330; Mathematics 331.* (5 units)

430. DATA COMMUNICATION NETWORKS

Review of hardware and data coding systems including modems, multiplexers and concentrators in networks. Protocols and software systems. *Prerequisites: Computer Science 260, 310 and 330.* (5 units)

450. SYSTEMS PROGRAMMING

Concepts and implementation techniques for assemblers, loaders and compilers. *Prerequisites: Computer Science 260, 311 and 330.* (5 units)

455. SOFTWARE ENGINEERING

Advanced techniques and tools for design and construction of complex software systems. Practical work on a complete software environment. *Prerequisite: Computer Science 450.* (5 units)

460. OPERATING SYSTEMS

An overview of operating systems. Principles of resource management and control. Multiprogramming and multiprocessor systems will be included. *Prerequisite: Computer Science 330.* (5 units)

470. COMPILERS

General interpreter and compiler structures. Topics include symbol tables, lexical and syntactic scanners, object code generation and optimization techniques. *Prerequisite: Computer Science 331.* (5 units)

480. DATA BASE SYSTEMS

Filing and data base systems. Hierarchical, relational and network models including design and implementation. *Prerequisite: Computer Science 330.* (5 units)

490. TOPICS IN COMPUTER SCIENCE

An in-depth consideration of selected areas of computer science. May be repeated for credit as topics change. *Prerequisites: Computer Science 331 and consent of instructor.* (2½ units)

575. INTERNSHIP IN COMPUTER SCIENCE

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. *Prerequisites: consent of instructor and department.* (5 units)

595. INDEPENDENT STUDY

Laboratory and/or library research conducted under the direction of a faculty member. May not be counted toward fulfilling requirements in the computer science major. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

CRIMINAL JUSTICE

*Department of Criminal Justice
Administration Building, Room 183
887-7252*

A system of criminal justice must meet the needs of each individual citizen as well as the needs of complex social, economic and governmental institutions. The B.A. degree program in criminal justice was developed with these needs in mind and is appropriate for both career-bound preservice students and inservice personnel in law enforcement, probation, parole, corrections, social service agencies and related areas.

In addition, the program is designed to provide students with an appropriate academic background for continuing into graduate studies in criminal justice or pursuing graduate study in other areas such as law or criminology.

The criminal justice major is an interdisciplinary program with enough flexibility to permit students to pursue their own interests. For example, students wishing to emphasize law enforcement may select particularly appropriate courses within the major and are encouraged to minor in administration, political science or sociology. Students directed toward probation, parole or corrections work are advised to select courses accordingly and to take electives in psychology or sociology.

Students transferring from community colleges may substitute selected administration of justice and corrections courses for Criminal Justice 101, 102 and 103 and may be given lower-division credit toward the major for two additional courses.

Requirements for the Bachelor's Degree

Requirements for the major:

Core Courses (Prerequisites for upper-division courses)

CRIMINAL JUSTICE 101. INTRODUCTION TO CRIMINAL JUSTICE I

CRIMINAL JUSTICE 102. INTRODUCTION TO CRIMINAL JUSTICE II

CRIMINAL JUSTICE 103. CRITICAL ISSUES IN CRIMINAL JUSTICE

With the prior consent of the department, Sociology 352 or Sociology 354 may be substituted for Criminal Justice 103.

Plus

Two of the following:

CRIMINAL JUSTICE 300 A. CRIMINAL JUSTICE ADMINISTRATION: POLICE ADMINISTRATION

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CRIMINAL JUSTICE 300 B. CRIMINAL JUSTICE ADMINISTRATION: COURT ADMINISTRATION

CRIMINAL JUSTICE 300 C. CRIMINAL JUSTICE ADMINISTRATION: CORRECTIONAL ADMINISTRATION

CRIMINAL JUSTICE 300 D. CRIMINAL JUSTICE ADMINISTRATION: PUBLIC AND PRIVATE SECURITY ADMINISTRATION

Plus

SOCIOLOGY 308. INTRODUCTION TO SOCIOLOGICAL RESEARCH

(By the end of their junior year, all criminal justice majors must complete Sociology 308. Students with strong interests in criminal justice research careers or who intend to pursue graduate studies in criminal justice should also take Sociology 408 in addition to 308.)

SOCIOLOGY 350. CRIMINOLOGY

SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT

SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

SOCIOLOGY 359. LAW AND SOCIETY

ANTHROPOLOGY 335. CROSS-CULTURAL PERSPECTIVES ON CRIME AND DEVIANCE

PHILOSOPHY 355. CONTEMPORARY ETHICAL ISSUES

POLITICAL SCIENCE 411. THE BILL OF RIGHTS

Plus

Four courses (to be selected in consultation with an advisor) from:

CRIMINAL JUSTICE 450. WHITE COLLAR CRIME

SOCIOLOGY 352. JUVENILE OFFENDER

SOCIOLOGY 354. DEVIANT BEHAVIOR

SOCIOLOGY 356. SOCIOLOGY OF MENTAL ILLNESS

SOCIOLOGY 360. SOCIAL PSYCHOLOGY

SOCIOLOGY 408. INTERMEDIATE SOCIOLOGICAL RESEARCH

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SOCIOLOGY 430. URBAN SOCIOLOGY

ADMINISTRATION 302. HUMAN BEHAVIOR IN ORGANIZATIONS

ADMINISTRATION 350. ADMINISTRATIVE COMMUNICATIONS

***ADMINISTRATION 380. SURVEY OF PUBLIC ADMINISTRATION**

* Credit may not be received for both Administration 380 and Political Science 380.

ADMINISTRATION 455. HUMAN RESOURCES MANAGEMENT

ADMINISTRATION 456. PSYCHOLOGY OF HUMAN RESOURCES

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

PSYCHOLOGY 315. HELPING PROCESSES

PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY

PSYCHOLOGY 390. ABNORMAL PSYCHOLOGY

POLITICAL SCIENCE 328. JUDICIAL PROCESS

***POLITICAL SCIENCE 380. SURVEY OF PUBLIC ADMINISTRATION**

POLITICAL SCIENCE 410. AMERICAN CONSTITUTIONAL LAW

PHILOSOPHY 350. ETHICS

PHILOSOPHY 465. PHILOSOPHY OF LAW

Requirements for the minor:

CRIMINAL JUSTICE 101. INTRODUCTION TO CRIMINAL JUSTICE I

CRIMINAL JUSTICE 102. INTRODUCTION TO CRIMINAL JUSTICE II

SOCIOLOGY 350. CRIMINOLOGY

Plus

CRIMINAL JUSTICE 103. CRITICAL ISSUES IN CRIMINAL JUSTICE

or one of the following (with departmental consent):

SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT

SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

Plus

Two courses from:

SOCIOLOGY 352. JUVENILE OFFENDER

SOCIOLOGY 357. SOCIOLOGY OF LAW ENFORCEMENT

SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

SOCIOLOGY 359. LAW AND SOCIETY

Honors in the Major: Students majoring in criminal justice are eligible to receive honors in criminal justice at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed

* Credit may not be received for both Administration 380 and Political Science 380.

at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department secretary.

MASTER OF ARTS IN CRIMINAL JUSTICE

The M.A. in Criminal Justice is designed to serve the growing number of individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice.

The program can serve a variety of student interests. It has been designed with a limited prerequisite requirement to enable students with baccalaureate degrees in related fields such as psychology, administration, anthropology or social sciences to enroll along with students with undergraduate degrees in sociology and criminal justice.

The program is intended for evening students primarily and, therefore, classes will be predominately scheduled between 4 and 10 p.m.

Admission to the M.A. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in sociology, criminology, criminal justice, or in an allied field such as administration, psychology or social sciences, or recommendation for admission to the program by a majority of the faculty in the program. Competence in the following prerequisite courses or their equivalents:
 - Sociology 308. Introduction to Sociological Research
 - Sociology 350. Criminology
 - Sociology 357. Sociology of Law Enforcement
 - Sociology 358. Sociology of Punishment and Corrections
 - Sociology 359. Law and Society
3. A cumulative undergraduate grade-point average of at least 2.5 overall and 3.0 in the major;
4. Completion of the GRE Aptitude Test (verbal, quantitative and analytical aptitude) for evaluation by the criminal justice faculty. If the test result is not submitted in time for the entry term, admission will be conditionally classified graduate standing.
5. Submission to the criminal justice program of three letters of recommendation from individuals who are familiar with the student's academic work and potential to complete the program successfully. Letters must come directly from the writer or be included in a placement file, and will be evaluated by criminal justice faculty members.

Students who meet the general requirements of the College for admission to postbaccalaureate study but do not meet the specific requirements for admission to classified status may be admitted to the program as conditionally classified

graduate students. Students enrolling in that status should consult an advisor in the criminal justice program upon admission to work out an appropriate program. With the aid of an advisor, these students may later petition for admission to classified status. The graduate committee will then consider the student's scholastic performance and other circumstances and either grant classified status, specify necessary preparatory studies, or recommend other courses of action.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 15 quarter units of approved graduate course work with a minimum grade-point average of 3.0;
3. Made arrangements for three faculty members, in consultation with the criminal justice coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
4. Submitted a formal program of graduate studies to the criminal justice coordinator and the associate dean of graduate programs as approved by the student's graduate advisory committee. This should be done no later than the end of the second quarter of graduate work.

Requirements for Graduation

1. A minimum of 45 units of acceptable graduate level work, with at least 32 quarter units completed in residence at this College. 25 quarter units must be in 600-level courses;
2. A grade-point average of at least 3.0 in all courses taken after admission to classified status;
3. Completion of the course work listed under curriculum below.
4. Completion of an acceptable thesis and final oral examination.
5. Any additional general requirements not cited above and listed on Pages 84 and 85.

Requirements for the M.A. Degree

Requirements for the Master of Arts in Criminal Justice: Completion of Criminal Justice 590, 600, 601 and 699A/B; Sociology 590 and Social Sciences 530. In addition, the student must complete 20 units of electives, of which 15 units must be at the 600-level, to be chosen from Administration 500, 600, 601, 641, 642 and 643.

Certificate Program

A certificate program in criminal justice is offered by the College. Details concerning this program are found on Page 94.

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101. INTRODUCTION TO CRIMINAL JUSTICE I

A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized. (5 units)

102. INTRODUCTION TO CRIMINAL JUSTICE II

Historical development of criminal law and its contemporary application. Theories of punishment and corrections will be reviewed, as they relate to the criminal justice system. (5 units)

103. CRITICAL ISSUES IN CRIMINAL JUSTICE

Contemporary problem areas in the criminal justice system, including issues in evidence, arrest and detention, search and seizure, the ideology of crime control and criminal justice reform, and specific areas of crime (organized crime, political crime). (Students may not receive credit for both Criminal Justice 103 and Sociology 103.) (5 units)

300. CRIMINAL JUSTICE ADMINISTRATION

Evaluation and analysis of criminal justice administration emphasizing organizational structure, function and behavioral processes. Specific subject areas considered are:

- A. Police Administration (2½ units)
- B. Court Administration (2½ units)
- C. Correctional Administration (2½ units)
- D. Public and Private Security Administration (2½ units)

308. INTRODUCTION TO SOCIOLOGICAL RESEARCH

Basic ideas and techniques used by sociologists in conducting research such as participant observation and case studies, surveys of public opinion and attitudes, and experiments with small groups. Lecture and six hours of laboratory. (Students may not receive credit for both Criminal Justice 308 and Sociology 308.) (6 units)

350. CRIMINOLOGY

Causes of crime with emphasis on sociological factors. (Students may not receive credit for both Criminal Justice 350 and Sociology 350.) (5 units)

357. SOCIOLOGY OF LAW ENFORCEMENT

Sociological analysis of law enforcement systems and the police role, consideration of police discretion and differential implementation of the criminal law, problems affecting crime control and the interdependence of police and community. (Students may not receive credit for both Criminal Justice 357 and Sociology 357.) (5 units)

358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers. (Students may not receive credit for both Criminal Justice 358 and Sociology 358.) (5 units)

359. LAW AND SOCIETY

Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice. (Students may not receive credit for both Criminal Justice 359 and Sociology 359.) (5 units)

450. WHITE COLLAR CRIME

Study of America's most costly form of crime and deviance. History, causes, consequences, prevention and explanations of economic crime and abuse of power in the corporate and business world, the professions, trades, the unions and government. (Students may not receive credit for both Criminal Justice 450 and Sociology 450.) (5 units)

575. INTERNSHIP IN CRIMINAL JUSTICE

Supervised work and study in private or public organizations. May be repeated once for credit. Open only to majors. *Prerequisites: consent of instructor and department.* (5 units)

590. SEMINAR IN CRIMINAL JUSTICE

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. *Prerequisites: senior or graduate standing and consent of instructor.* (5 units)

595. INDEPENDENT STUDY

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. A total of 10 units in Criminal Justice 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and program coordinator's approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

600. SEMINAR IN THE CRIMINAL JUSTICE SYSTEM

Intensive study of selected topics within the criminal justice system. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

601. ADVANCED STUDIES IN CRIMINAL JUSTICE ADMINISTRATION

A comprehensive examination of the criminal justice system with emphasis on roles and relationships among the segments of the system and on organizational administration. *Prerequisite: consent of instructor.* (2½ units)

699. THESIS

Preparation of the thesis for the M.A. in Criminal Justice under the direction of a faculty member from the student's committee. Criminal Justice 699B must be completed before credit will be awarded for 699A. *Prerequisite: advancement to candidacy.*

A. (2½ units)

B. (2½ units)

EARTH SCIENCE

School of Natural Sciences

Biological Sciences Building, Room 130

887-7341

At the present time the College does not offer a major program in earth science or geology. The courses listed below are offered to permit an elective option in general education (Earth Science 101) and in support of other major programs.

101. PHYSICAL GEOLOGY

An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Lecture and three hours of laboratory. (5 units)

301. GEOLOGY OF CALIFORNIA

Geologic evolution of California, its structural framework and geomorphic provinces. Lecture only. *Prerequisite: Earth Science 101.* (5 units)

310. FIELD GEOLOGY

Field investigation of rocks and geologic structures and methods of geological observation and interpretation in a geologically noteworthy area such as Great Basin, Sierra Nevada, Transverse Ranges or selected national parks and monuments. May be repeated for credit as the topics change. *Prerequisite: Earth Science 101.* (2½ units)

595. INDEPENDENT STUDY

Laboratory, field or library research conducted under the direction of a faculty member. A total of six units in Earth Science 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of the Office of the School of Natural Sciences, and approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

ECONOMICS

Department of Economics
Student Services Building, Room 139
887-7278

Any time a choice must be made between alternatives—whether a personal decision to study math or play ball, or a governmental decision whether to spend a billion dollars on the space program or on schools—there are economic ramifications. Personal decisions sometimes are made without conscious awareness of costs and benefits involved in the alternatives. But business, government and social institutions must, if they are to use resources wisely, consciously consider economic factors in making decisions. The use of economic principles enables individuals and organizations to analyze problems in an orderly manner and to make sound choices about the economic desirability of a program or activity.

Training in economics, supplemented by course work in other disciplines, provides excellent preparation for particular careers in industry, government and many professions including management, law or consulting. Because economic problems are encountered everywhere and touch everyone's life, the study of economics also provides useful intellectual training for individuals who may be uncertain about their future plans.

Requirements for the Bachelor's Degree

Requirements for the major: Economics 200, 202, 300, 302, 500, and at least 25 upper-division units. With approval of a departmental advisor, up to 10 units in related fields may be counted toward the upper-division course requirement in economics. Mathematics 110 and Administration 210 or equivalent are also required. Mathematics 200 is highly recommended.

Requirements for a minor in economics: Economics 200, 202, 300, 302, plus 10 units of upper-division economics.

Departmental Honors: Departmental honors will be awarded upon graduation to students majoring in economics who have earned a 3.5 grade-point average in all economics courses attempted at this College, completed at least half of all work in economics at this College and been recommended for departmental honors by economics faculty.

104. INTRODUCTION TO ECONOMICS

Economic models, ideas and approaches to social issues. Cannot be counted toward fulfillment of requirements in the economics major. (5 units)

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200. PRINCIPLES OF MICROECONOMICS

Introduction to the economic principles which govern production exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and non-competitive markets. (5 units)

202. PRINCIPLES OF MACROECONOMICS

Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth. *Prerequisite: Economics 200 or consent of instructor.* (5 units)

300. INTERMEDIATE MACROECONOMICS

Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment. *Prerequisites: Economics 200 and 202.* (5 units)

302. INTERMEDIATE MICROECONOMICS

Detailed analysis of economic behavior of consumers and producers in competitive and non-competitive markets, and of the criteria for achieving optimality in the allocation and use of resources. *Prerequisites: Economics 200 and 202.* (5 units)

305. INTENSIVE INTRODUCTORY ECONOMICS

An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students with credit in Economics 200 and 202. *Prerequisite: graduate standing.* (5 units)

322. MANAGERIAL ECONOMICS

Application of microeconomic theory and analysis to business and administrative problems. *Prerequisites: Economics 200 and 202.* (5 units)

352. THE ECONOMICS OF POVERTY AND DISCRIMINATION

Investigation of the incidence of poverty among ethnic and racial minorities, women and the aged in the U.S.; analysis of discrimination and other causes of poverty among these groups; survey of methods for minimizing poverty in the United States. (5 units)

360. ECONOMICS OF THE ENVIRONMENT

Economic causes and implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of the economic impacts of alternative forms of environmental control and protection. (5 units)

370. THE AMERICAN ECONOMY

Development and structure of the American economy. (5 units)

390. SELECTED TOPICS IN ECONOMICS

Examination of selected topics of current interest in economics. May be repeated for credit as topics change. (5 units)

410. MONEY AND BANKING

Demand for money, creation and manipulation of the money supply, and the role of banking and other financial institutions in the United States in determining the level of employment, prices and international payments equilibrium. *Prerequisite: Economics 202.* (5 units)

420. COMPARATIVE ECONOMIC SYSTEMS

Comparison of theories and forms of organization of major contemporary economic systems such as those found in command, market-socialism and predominantly free-enterprise economies. *Prerequisite: Economics 202.* (5 units)

421. ECONOMIC HISTORY OF THE UNITED STATES

Economic history of the United States from the founding of the colonies to the present. (Also offered as History 421. Students may not receive credit for both.) (5 units)

430. INTERNATIONAL ECONOMICS

Theory of economic growth through international specialization and exchange with emphasis on economic disturbances in international markets, mechanisms for adjustment, policies bearing on international trade and selected current issues. *Prerequisites: Economics 200 and 202.* (5 units)

445. MARXIAN POLITICAL ECONOMY

Introduction to the dynamics of the capitalist economic system as viewed from Marx's theory of value, production and distribution. *Prerequisites: Economics 200 and 202 or consent of instructor.* (5 units)

450. ECONOMIC DEVELOPMENT

Economic problems confronting developing countries; policies hypothesized to achieve desired rates of economic development in these areas. (5 units)

460. LABOR ECONOMICS

Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and non-competitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. *Prerequisite: Economics 200.* (5 units)

475. PUBLIC FINANCE

Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. *Prerequisite: Economics 200 or consent of instructor.* (5 units)

480. INTRODUCTION TO MATHEMATICAL ECONOMICS

Application of mathematical concepts and techniques to economic models of optimization by consumers and producers, to models of price determination and to the study of input-output techniques. *Prerequisites: Economics 200 and Mathematics 200.* (5 units)

490. INTRODUCTION TO ECONOMETRICS

Various statistical methods of testing economic hypotheses. *Prerequisites: Economics 200, 202, Mathematics 110, and Administration 210, or equivalent.* (5 units)

500. HISTORY OF ECONOMIC THOUGHT

Survey of the development of economic doctrines and analyses and concurrent intellectual and social history with emphasis on the ideas of landmark economists from Adam Smith to John Maynard Keynes. *Prerequisite: Economics 200.* (5 units)

590. SEMINAR IN ECONOMICS

Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor. (5 units)

595. INDEPENDENT STUDY

Investigation of special topics not covered by the department's curricular offerings. A total of 10 units in Economics 595 may be applied toward the major and graduation. *Prerequisites: A minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

EDUCATION

School of Education

Pfau Library Building, Room 500 North

887-7571

The School of Education offers course work designed to prepare students for a variety of careers in education. At the present time, the College is approved to offer the following credentials through the Department of Teacher Education:

- Multiple subjects teaching credential for teaching in a self-contained classroom (all grades),
- Multiple subjects teaching credential with emphasis in bilingual/cross-cultural teaching in a self-contained classroom (all grades),
- Single subject credential for teaching a single subject in a departmentalized school (all grades),
- Designated subjects teaching credential for technical, trade or vocational subjects. For information concerning the Bachelor of Vocational Education see Page 339.

In general, students electing to pursue an emphasis in elementary teaching should undertake one of the multiple subjects credentials. Students wishing to follow an emphasis in secondary teaching should pursue the single subject credential.

In addition the following credentials are offered through the Department of Special Programs:

- Administrative services credential,
- Bilingual/cross-cultural specialist credential,
- Designated subjects program supervision and coordination credential,
- Health services credential,
- Pupil personnel services credential in counseling,
- Reading specialist credential,
- School psychologist services credential,
- Special education specialist credential (learning handicapped),
- Special education specialist credential (severely handicapped).

The Department of Special Programs also is authorized to offer the following:

- Certificate of competence in adapted physical education.
- Resource specialist certificate.

The school offers a program leading to the Bachelor of Vocational Education degree. Further information about this degree is provided on Page 339.

A Master of Arts degree is offered with options available in elementary education, secondary education, history and English for secondary teachers, reading, counselor education, school administration, special education, bilingual/cross-

cultural education and vocational education. Inservice course work also is available to personnel currently employed in education or for those interested in learning more about the field. Course work also is offered for the fifth-year, clear credential.

BASIC TEACHING CREDENTIALS

MULTIPLE SUBJECTS

Admission to the Program

Admission to the College must precede admission to the credential program. During the first week of every term, all new applicants (juniors, seniors and postbaccalaureate students) interested in entering the program must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Students may enroll in Education 330 (Psychological Foundations of Education) and Education 345 (Reading in the Elementary School) without being admitted to the program. Admission to the program is defined as admission to student teaching and is based on the following criteria:

1. Three written recommendations, at least two from faculty members in the student's major department.
2. Interview by a member of the School of Education faculty.
3. Verification of a negative tuberculin examination within the last 24 months.
4. Audiovisual clearance from the Audiovisual Department.
5. Academic achievement.

Applicants must possess the following minimum grade-point averages:

- a. 2.6 in the last 90 quarter units attempted;
- b. 2.6 in course work in the academic field(s) authorized as subject matter preparation for the credential sought; and,
- c. 2.7 in professional education course work, with no course grade in this area lower than B—.

No candidate may be recommended for the credential who has received a grade of less than C (2.0) in any other course required for the credential, such as Health Science. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

6. One of the following:
 - a. Completion of the requirements for the liberal studies major as offered at this campus, or an approved diversified major on another campus,
or
 - b. Satisfactory completion of the "General Knowledge Section" of the National Teacher Examination Core Battery. (Students who elect this option may choose any major offered at this College.)
7. Submission of a certificate of clearance issued by the Commission on Teacher Credentialing or evidence of a credential or permit authorizing public school teaching in California.
8. Completion of the upper-division writing requirement at the College or the equivalent graduation requirement at another accredited institution.

9. Submission of evidence that the applicant has taken/attempted the California Basic Educational Skills Test for diagnostic purposes.
10. Satisfactory completion of the following prerequisite courses: Education 330 and 345.

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.

One quarter in advance of the time students intend to enroll in student teaching they must complete the application for admission to the program and to student teaching. Students are to ascertain, from the Credentials Office, the deadline for submitting an application. Each applicant is reviewed in terms of all of the above criteria and in addition, each must have completed the prerequisite course work in education and be at least of senior standing. Student teaching for the credential is a full-time assignment for two quarters, and no concurrent course work should be taken beyond the required methods courses.

Requirements for the Credential

Requirements for the multiple subjects teaching credential: Education 330, 340, 341, 345 and 411 A/B. Course work in professional education must be completed with a grade-point average of 2.7, with no course grade lower than B— . (Students who do not have an undergraduate major in liberal studies must successfully complete the “General Knowledge Section” of the National Teacher Examination core battery prior to enrollment in Education 411.) One of the following is required to meet the health education requirement: Health Science 330, 336, 426, 435, 440. One of the following is required to fulfill the United States Constitution requirement: History 200 or 540, Political Science 203, 410 or 411, Social Sciences 146, or successful completion of an examination administered through the College Counseling and Testing Center. One of the following is also required to fulfill the special education requirement: Education 530 or 542, The Exceptional Student. (Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the School of Education.)

Upon completing the requirements for the baccalaureate degree and two quarters of student teaching, candidates may apply for a preliminary credential. Within five years candidates must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the B.A.) and meet the health education and the United States Constitution requirements to obtain a clear credential.

MULTIPLE SUBJECTS—

BILINGUAL/CROSS-CULTURAL EMPHASIS

Admission to the Program

Admission to the College must precede admission to the credential program. During the first week of every term, all new applicants (juniors, seniors and

postbaccalaureate students) interested in entering the program must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Students may enroll in Education 330 (Psychological Foundations of Education) and Education 345 (Reading in Elementary School—Bilingual Section) without being admitted to the program. Admission to the program is defined as admission to student teaching and is based on the following criteria:

1. Three written recommendations, one of which must be from a professor of Spanish and one from a professor of a course in some aspect of Chicano or Mexican studies.
2. Interview by a member of the School of Education faculty.
3. Verification of a negative tuberculin examination within the last 24 months.
4. Audiovisual clearance from the Audiovisual Department.
5. Academic Achievement

Applicants must possess the following minimum grade-point averages:

- a. 2.6 in the last 90 quarter units attempted;
- b. 2.6 in course work in the academic field(s) authorized as subject matter preparation for the credential sought; and,
- c. 2.7 in professional education course work, with no course grade in this area lower than B—.

No candidate may be recommended for the credential who has received a grade of less than C (2.0) in any other course for the credential, such as Health Science. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

6. Completion of the liberal studies major with the bilingual/cross-cultural emphasis or the equivalent as established by the Commission on Teacher Credentialing.
7. Submission of a certificate of clearance issued by the Commission on Teacher Credentialing or evidence of a credential or permit authorizing public school teaching in California.
8. Demonstration of competence in oral and written Spanish at level 2 on the Foreign Service Institute (FSI) Proficiency Rating.*
9. Knowledge of the culture of the Latino/Chicano population, demonstrated by attaining, through written assessment, level 2 of the criteria for the California Bilingual Certificate of Competence.*
10. Completion of the upper-division writing requirement at the College or the equivalent graduation requirement at another accredited institution.
11. Submission of evidence that the applicant has taken/attempted the California Basic Educational Skills Test for diagnostic purposes.
12. Satisfactory completion of the following prerequisite courses: Education 330 and 345 (Bilingual Section).

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and many-sided interests.

* For information on language and culture examinations, inquire at the School of Education office, PL 500. To be *recommended* for the bilingual emphasis credential, candidates must demonstrate competence at level 3 of the FSI Rating and the California Bilingual Certificate of Competence.

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All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.

One quarter in advance of the time students intend to enroll in student teaching they must complete the application for admission to the program and to student teaching. Students are to ascertain, from the Credentials Office, the deadline for submitting an application. Each applicant is reviewed in terms of all of the above criteria and in addition, each must have completed the prerequisite course work in education and be at least of senior standing. Student teaching for the credential is a full-time assignment for two quarters, and no concurrent course work should be taken beyond the required methods courses.

Requirements for the Credential

Requirements for the multiple subjects teaching credential with the bilingual/cross-cultural emphasis: Education 330, 340, 344, 345 (Bilingual Section) and 411 A/B (performed in a recognized bilingual classroom). Course work in professional education must be completed with a grade-point average of 2.7, with no course grade lower than B—. One of the following is required to meet the health education requirement: Health Science 330, 336, 426, 435 and 440. One of the following is required to fulfill the United States Constitution requirement: History 200 or 540, Political Science 203, 410 or 411, Social Sciences 146, or successful completion of an examination administered through the College Counseling and Testing Center. One of the following is also required to fulfill the special education requirement: Education 530 or 542, The Exceptional Student. (Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the School of Education.)

Upon completing the requirements for the baccalaureate degree and two quarters of student teaching, candidates may apply for a preliminary credential. Within five years candidates must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the B.A.) and meet the health education and the United States Constitution requirements to obtain a clear credential.

SINGLE SUBJECT

Admission to the Program

Admission to the College must precede admission to the credential program. During the first week of every term, all new applicants (juniors, seniors and postbaccalaureate students) interested in entering the program must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Students may enroll in Education 330 (Psychological Foundations of Education), Education 440 (Secondary Curriculum and Instruction I), and Education 445 (Teaching Reading and Writing in Secondary School Subjects) without being admitted to the program. Admission to the program is defined as admission to student teaching and is based on the following criteria:

1. Three written recommendations, at least two from faculty members in the student's major department.

2. Interview by a member of the School of Education faculty.
3. Verification of a negative tuberculin examination within the last 24 months.
4. Audiovisual clearance from the Audiovisual Department.
5. Academic Achievement

Applicants must possess the following minimum grade-point averages:

- a. 2.6 in the last 90 quarter units attempted;
- b. 2.6 in course work in the academic field(s) authorized as subject matter preparation for the credential sought; and
- c. 2.7 in professional education course work, with no course grade in this area lower than B—.

No candidate may be recommended for the credential who has received a grade of less than C (2.0) in any other course required for the credential, such as Health Science. In the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

6. a. Completion of the National Teacher Examination (Specialty Examination) in the Single Subject.

or

- b. Completion of one of the following degree programs at this College:

Single Subject Credential

Art

English

Foreign Language

Government

History

Life Science

Mathematics

Music

Physical Science

Social Science

*Degree Major**

B.A. Art

B.A. Theatre Arts

B.A. English

B.A. French

B.A. Spanish

B.A. Political Science

B.A. History

B.A. Biology

B.S. Biology

B.A. Mathematics

B.S. Mathematics

B.A. Music

B.A. Chemistry

B.S. Chemistry

B.A. Physics

B.S. Physics

B.A. Social Sciences

For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the School of Education and/or the appropriate department.

7. Submission of a certificate of clearance issued by the Commission on Teacher Credentialing or evidence of a credential or permit authorizing public school teaching in California.
8. Completion of the upper-division writing requirement at the College or the equivalent graduation requirement at another accredited institution.
9. Submission of evidence that the applicant has taken/attempted the California Basic Educational Skills Test for diagnostic purposes.
10. Satisfactory completion of the following prerequisite courses: Education 330, 440 and 445.

* All single subject waiver programs are currently pending reapproval by the state Commission on Teacher Credentialing under new guidelines and criteria. Students entering teaching credential programs after July 1, 1984 should check with departments to determine if program has been reapproved or modified to conform to new standards.

In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.

One quarter in advance of the time students intend to enroll in student teaching they must complete the application for admission to the program and to student teaching. Students are to ascertain, from the Credentials Office, the deadline for submitting an application. Each applicant is reviewed in terms of all of the above criteria and in addition, each must have completed the prerequisite course work in education and be at least of senior standing. Student teaching for the credential is a full-time assignment for two quarters, and no concurrent course work should be taken beyond the required methods courses.

Requirements for the Credential

Requirements for the single subjects teaching credential: Education 330, 440, 441 or a course in the candidate's discipline numbered 499 (methods and materials for teaching in a single subject field), 445 and 421 A/B. Course work in professional education must be completed with a grade-point average of 2.7, with no course grade lower than B—. One of the following is required to meet the health education requirement: Health Science 330, 336, 426, 435, 440. One of the following is also required to fulfill the United States Constitution requirement: History 200 or 540, Political Science 203, 410 or 411, Social Sciences 146, or successful completion of an examination administered through the College Counseling and Testing Center. The special education requirement is met by the following regular course work in the program: Education 330, 421 A/B, 440 and 445. However, any single subjects student who has not taken the complete series of courses at this College since the beginning of the winter quarter 1979 can fulfill the special education requirement by taking one of the following: Education 530 or Education 602, Exceptional Student. (Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the School of Education office.)

Upon completing the requirements for the baccalaureate degree and two quarters of student teaching, candidates may apply for a preliminary credential. Within five years candidates must complete a fifth year of study (45 quarter hours of approved upper-division and/or graduate course work beyond the B.A.) and meet the health education and the United States Constitution requirements to obtain a clear credential.

DESIGNATED SUBJECTS (Vocational Education)

Admission to the Program

Admission to the College must precede admission to the credential program. Admission to the designated subjects credential program is based on the following criteria:

1. Appropriate work experience and/or academic achievement. Candidates must maintain a minimum grade-point average of 2.5 in professional education courses.

2. Absence of a disqualifying felony criminal conviction.
3. Interview with the coordinator of designated subjects and/or other faculty in the School of Education.
4. Written recommendation attesting to the candidate's subject matter proficiency, character and potential to teach.
5. Evidence of prior experience in working with children, youth groups or other appropriate groups.

Requirements for the Credential

There are two basic cores of the designated subjects credential program, one for those wishing to teach vocational subjects, and a second core for those wishing to teach nonvocational subjects.

Vocational Subjects Core: Education 501, 502 and 503. Education 501 is required for the part-time teaching credential and Education 501, 502, 503 are required for the full-time. Course work in professional education must be completed with a grade-point average of 2.5. One of the following is required to meet the Health Education requirement: Health Science 330, 336, 426, 435 or 440.

Nonvocational Subjects Core: Education 504, 505, and 506. Education 504 and 505 are required for the part-time teaching credential and Education 504, 505 and 506 are required for the full-time. Course work in professional education must be completed with a grade-point average of 2.5. One of the following is required to meet the Health Education requirement: Health Science 330, 336, 426, 435 or 440.

In addition, certain "prescriptive electives" may be added to the curriculum of a given candidate in order to meet specific needs. These needs may be determined by the school district in which the candidate is employed or by the designated subjects credential coordinator.

For information concerning the Bachelor of Vocational Education, see Page 339.

SPECIALIST AND SERVICES CREDENTIALS

The following programs are offered through the Department of Special Programs in the School of Education:

- Administrative services
- Bilingual/cross-cultural specialist
- Health services
- Pupil personnel services (counseling)
- Reading specialist
- School psychologist services
- Special education specialist: learning handicapped
- Special education specialist: severely handicapped
- Supervision and coordination of designated subjects programs

Most of these credentials are designed to complement a corresponding option in the M.A. program. Although admission requirements are different for each special program, with the exception of the pupil personnel services credential

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and the health services credential, all of the specialist and services credential programs require a basic teaching credential or teaching experience.

With the exception of the school psychologist services credential, candidates are required to maintain a 3.0 grade-point average throughout the program sequence. The school psychologist services credential requires a 3.5 grade-point average.

ADMINISTRATIVE SERVICES

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the administrative services credential program requires the following:

1. A valid California teaching or pupil personnel or health services credential. (The administrative services credential requires an appropriate credential and three years of school-related experience.)
2. A 3.0 grade-point average in all course work taken in education.
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.
4. Verification of completion of California Basic Educational Skills Test for diagnostic purposes.

Requirements for the Credential

Requirements for the administrative services credential: Education 530, 610 *or* 644, 640 *or* 699, 673, 674B *or* 674C, 675, 676, 679D (for a total of 5 units), and 695.

BILINGUAL/CROSS-CULTURAL SPECIALIST

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the bilingual/cross-cultural specialist credential program requires the following:

1. A valid teaching credential or teaching experience.
2. A 3.0 grade-point average in all course work taken in education and in all bilingual/cross-cultural areas.
3. Three letters of recommendation, at least one from a school supervisor or administrator, to be evaluated by faculty members in the program.
4. Demonstration of competence in oral and written Spanish at Level 3 on the Foreign Service Institute (FSI) Proficiency Rating.
5. Written evaluations by three professors in courses taken in the program, submitted to the coordinator of the program.

Requirements for the Credential

Requirements for the bilingual/cross-cultural specialist credential: Education 536, 606, 607, 608, 679A (for a total of 5 units), History 391, Interdisciplinary

Studies 460, Spanish 415, and 5 units of electives. Acceptable as electives are: Art 328, 329, Anthropology 460, Education 624, Foreign Language 450 (or Spanish 450), History 390, 565, Humanities 460, Music 351, Political Science 351, Sociology 410, 442, and Spanish 302, 440.

HEALTH SERVICES

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the health services credential program requires the following:

1. A current California Registered Nurse license.
2. Three letters of recommendation.

Recommendation for the Credential

In order to be recommended for a credential, the student must have:

1. Completed all of the prescribed course work with a grade-point average of 3.0 or better.
2. Completed the School of Education's audio-visual requirement.
3. Recommendation from the program committee.

Requirements for the Credential

Requirements for the health services credential: Education 440, 530, 603, Health Science 330, 336, 374, 410, 451, 474, Nursing 356, 357, 358 and 359.

PUPIL PERSONNEL SERVICES

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the pupil personnel services credential program requires the following:

1. Completion of Education 531 with a grade of B (3.0) or better.
2. Three recommendations from persons having knowledge of the applicant's counseling potential, to be submitted before completion of Education 531.
3. Application form and self-disclosure statement, to be submitted before completion of Education 531.
4. A 3.0 grade-point average in all course work taken in education.
5. Verification of completion of California Basic Educational Skills Test for diagnostic purposes.

Students who do not meet all of the above criteria will be interviewed by at least two members of the counseling education faculty and may be admitted conditionally. General fitness and potential for counseling are determined when admitted to the program and throughout the candidate's course of study.

Requirements for the Credential

Requirements for the pupil personnel services credential: Education 530, 531, 619, 650, 652, 653, 655, 656, 657A/B, 677 and 679B (for a total of 5 units).

READING SPECIALIST

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the reading specialist credential program requires the following:

1. A valid teaching credential or teaching experience.
2. A 3.0 grade-point average in all course work taken in education.
3. Three letters of recommendation: one from the candidate's school principal, one from a fellow teacher and one from a college professor of a graduate-level course taken within the last three years. These letters will be evaluated by faculty members in the program.

Recommendation for the Credential

In order to be recommended for a credential, the student must have:

1. Completed all of the prescribed course work with a grade-point average of 3.0 or better.
2. Verified that all competencies have been met.
3. Verified two years of full-time teaching, including the teaching of reading.
4. Obtained a letter of recommendation from the reading program faculty.

Requirements for the Credential

Requirements for the reading specialist credential: Education 611 for a total of 5 units, Education 612, 613, 614, 620, 622, 624, 625, 628, 629 (for a total of 5 units), 631, and 679C.

SCHOOL PSYCHOLOGIST SERVICES

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the school psychologist services credential program requires the following:

1. A valid California pupil personnel services credential.
2. Completion of an interview with two faculty members to assess competence in interpersonal skills.
3. A 3.5 grade-point average in all previous graduate work.
4. Verification of completion of California Basic Educational Skills Test for diagnostic purposes.

No more than 20 units toward this credential may be taken prior to admission to the program.

Recommendation for the Credential

In order to be recommended for a credential, the student must have:

1. Completed all of the prescribed course work with a grade-point average of 3.5 or better.
2. Completed one year of related work experience.

Requirements for the Credential

Requirements for the school psychologist services credential: Education 623, 647, 648, 660, 665, 681, 686, 687, 689A/B/C, 693, Psychology 387 and 391.

SPECIAL EDUCATION SPECIALIST

(Learning Handicapped)

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the special education specialist credential program (learning handicapped) requires the following:

1. A valid teaching credential or evidence of full-time teaching experience.
2. A 3.0 grade-point average in all course work taken in education.

Requirements for the Credential

Requirements for the special education specialist credential (learning handicapped): Education 530, 532, 625, 644, 679E (for a total of 5 units), 681, 682, 683 and five units of electives. Acceptable as electives are: Education 531, 621, 623, or other courses chosen in consultation with an advisor.

SPECIAL EDUCATION SPECIALIST

(Severely Handicapped)

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the special education specialist credential program (severely handicapped) requires the following:

1. A 3.0 grade-point average in all course work taken in education.
2. Three letters of recommendation, to be evaluated by faculty members in the program.
3. Completion of Education 530 and 532 with grades of B (3.0) or better.
4. A valid California basic teaching credential.

Requirements for the Credential

Requirements for the special education specialist credential (severely handicapped): Education 530, 532, 644, 668A/B/C/D, 688, 679G and five units of electives approved by the special education coordinator.

SUPERVISION AND COORDINATION OF DESIGNATED SUBJECTS PROGRAMS

Admission to the Program

In addition to meeting the general requirements of the College for admission as a postbaccalaureate student, admission to the supervision and coordination of designated subjects programs credential requires the following:

Vocational Program:

1. Possession of or eligibility for a clear designated subjects teaching credential or equivalent.
2. Three years of full-time classroom teaching experience (or its equivalent) in the subject title on the teaching credential.

Nonvocational Program:

1. Possession of or eligibility for a clear designated subjects teaching credential or equivalent.
2. A high school diploma (or equivalent) plus five years of full-time work experience,

or

a baccalaureate degree including 12 semester units of course work related to the subject to be taught.

Requirements for the Credential

Requirements for the supervision and coordination of designated subjects programs credential: Education 507, 508, 509 and 510.

SPECIALIST CERTIFICATE

RESOURCE SPECIALIST CERTIFICATE

Admission to the Certificate Program

Admission to the College must precede admission to the certificate program.

1. A baccalaureate degree from an accredited college.
2. A valid teaching credential.
3. A cumulative grade-point average of 2.6 in the last 90 quarter units and a 3.0 in all course work taken in education.
4. Education 530 or its equivalent; and a minimum of 20 credit hours in special education.

Requirements for Completion of the Certificate

1. * † Education 630. Topics in Research in Teaching and Learning
* Education 646. The Resource Specialist in Special Education

* Course has a prerequisite

† Acceptable only when the topic is special education

- * Education 679H. Fieldwork: Resource Specialist (for 5 units)
- * Education 683. Case Work in Teaching the Learning Handicapped
- 2. A special education specialist credential
- 3. Three years of teaching experience to include full time teaching in both the regular classroom and the special education classroom.

MASTER OF ARTS IN EDUCATION

The Master of Arts programs in elementary and secondary education developed by the College reflect the curricular and educational changes of the past decade and are designed to meet the needs of teachers who desire greater content knowledge as well as new methods of creating a child-centered educational environment. These programs seek to increase the teaching effectiveness of elementary and secondary teachers already in the classroom, to help them upgrade their skills, and to prepare them to serve as leaders in various district curriculum projects and as project directors in federally funded programs. The M.A. graduate should emerge with new skills in carrying out and evaluating educational experimentation. These options are open to individuals who hold a valid teaching credential or to applicants with teaching experience.

The M.A. in education with an emphasis on counseling trains individuals to work at all levels—elementary through junior college. The program, which is competency based, gives each graduate student the opportunity to acquire the specific skills needed to become an effective counselor. An important facet of the program is to prepare individuals for cross-cultural counseling and for working with other specialized groups. Neither a credential nor teaching experience is necessary to work toward the M.A. option in counseling.

Through the option in school administration, individuals will be prepared for leadership roles in school administration, school business management and supervision of instruction.

The M.A. in education with an option in reading meets the needs of the candidate who is interested in increasing skills in the effective teaching of reading. The program is competency based and places emphasis on the models and methods that enhance the development of attitudes and skill acquisition for the reader.

The M.A. in education with an option in bilingual/cross-cultural education is designed to give advanced training to personnel involved in bilingual programs in grades K–12. The program should also meet the needs of community college personnel who are involved in the training of classroom aides and other paraprofessionals.

The M.A. in education with an option in special education will provide advanced preparation for teaching the learning handicapped, and will provide training for those persons interested in administrative positions or leadership positions in special education.

The option in vocational education is designed to provide advanced and specialized education to personnel working in a variety of settings related to vocational education such as secondary, post-secondary and private schools. The program should also meet the requirements for leadership positions in these facilities.

M.A.—BILINGUAL/CROSS-CULTURAL OPTION

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or teaching experience;
2. A GPA of at least 2.5 in the last 90 quarter units and a 3.0 in all bilingual/cross-cultural courses;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Satisfactorily completed Education 603 and 695;
3. Completed, with a GPA of 3.0, 15 quarter units of course work, at least 10 of which must have been on this campus and approved by an advisor in the School of Education;
(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)
4. Secured approval of candidacy from the School of Education;
5. Demonstrated proficiency in Spanish;
6. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the dean of the School of Education and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, with a minimum of 32 units completed in residence at this College.
2. A minimum of 22 quarter units taken after the student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements, and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of Education 610 and Education 600, or Education 644 and a comprehensive examination in bilingual/cross-cultural education.
5. A minimum of 25 units in courses numbered 600 or above included as part of the approved program.
6. Successful completion of Education 697 within the last 7½ units of course work.

7. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the School of Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination in bilingual/cross-cultural education.

Students who elect to complete a project must register for Education 610 and Education 600 and these units may be part of the required 45 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of bilingual/cross-cultural education, rather than subject matter of courses taken. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in bilingual/cross-cultural education include: Education 603, 695, and 697; and 35 units of required and elective courses distributed as follows:

Students choosing the master's project: Education 600, 606, 608, 610, Spanish 415, and 10 units of electives.

Students choosing the comprehensive examination: Education 606, 608, 644, Spanish 415, and 15 units of electives.

Approved electives: Anthropology 460, Art 328, 329, Education 536, 607, 680, History 390, 391, 565, 566, Humanities 460, Interdisciplinary Studies 460, Music 351, Political Science 351, Psychology 347, Sociology 342, 410, and Spanish 440.

M.A.—COUNSELOR EDUCATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. Completion of Education 531 with a grade of B (3.0) or better;
2. Three recommendations from persons having knowledge of the applicant's counseling potential, to be submitted before completion of Education 531;
3. Application form and self-disclosure statement, to be submitted before completion of Education 531;
4. A 3.0 GPA in all course work taken in education.

Students who do not meet all of the above criteria will be interviewed by at least two members of the counseling education faculty and may be admitted conditionally. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed Education 603 and 695;
3. Completed, with a GPA of 3.0, 15 quarter units of course work, at least 10 of which must have been on this campus and approved by an advisor in the School of Education;

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

4. Secured approval of candidacy from the School of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the school and the Associate Dean for Graduate Programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, with a minimum of 32 units completed in residence at the College;
2. A minimum of 22 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements, including a minimum grade of B (3.0) in the prerequisite course, Education 531 and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of a written and an oral comprehensive examination;
5. Successful completion of Education 697 within the last 7½ units of course work;

6. Any additional general requirements not cited above and listed on Pages 84 and 85.

The written and oral comprehensive examination is designed to test the student's knowledge of the field of counselor education. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in counselor education: Education 531; Education 603, 695, 697; and 35 additional units of required courses as follows: Education 619, 652, 656, 657A/B, 677 and 679B (for a total of five units).

M.A.—ELEMENTARY EDUCATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;

2. Completed, with a GPA of 3.0, at least 15 quarter units of applicable course work in graduate standing, at least 10 of which have been taken at this campus and approved by an advisor in the School of Education;
(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)
3. Satisfactorily completed Education 603 and 695;
4. Secured approval of candidacy from the School of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the dean of the School of Education and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable course work, with a minimum of 32 completed in residence at this College.
2. A minimum of 22 quarter units taken after the student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of Education 600 or the passing of a comprehensive examination in elementary education.
5. A minimum of 25 units in courses numbered 600 or above included as part of the approved graduate program.
6. Successful completion of Education 697 within the last 7½ units of course work.
7. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the School of Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination in elementary education.

Students who elect to complete a project must register for Education 600; these units may be part of the required 45 units.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of elementary education, rather than subject matter of courses taken. The examination is offered once each quarter.

Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in elementary education include: Education 603, 695, 697; and 35 units of required and elective courses distributed as follows:

Students choosing the master's project: Education 600, 604A,B,C,D or E (for a total of 5 units), 609A,B,C,D or E, 610 or 644, 640 and 10 units of approved courses in one of the following areas:

- A. Mathematics—Mathematics 302 and *either* Natural Sciences 499 *or* approved mathematics course elective
- B. Science—Approved science course electives
- C. Social Studies—Approved social studies course electives (anthropology, economics, geography, history, political science, psychology, social sciences or sociology)
- D. Language Arts—English 311 and *either* Humanities 499C *or* approved English course elective
- E. Fine Arts—Art 395, 397, Music 531, Theatre Arts 481 or approved fine arts course electives

(Consult an advisor in the School of Education for approved course electives in the above areas.)

Students choosing the comprehensive examination: Education 604A,B,C,D or E (for a total of 5 units), 609A,B,C,D or E, 610 or 644, 640 and 10 units of approved courses in one of the following areas:

- A. Mathematics—Mathematics 302 and *either* Natural Sciences 499 *or* approved mathematics course elective
- B. Science—Approved science course electives
- C. Social Studies—Approved social studies course electives (anthropology, economics, geography, history, political science, psychology, social sciences or sociology)
- D. Language Arts—English 311 and *either* Humanities 499C *or* approved English course elective

(Consult an advisor in the School of Education for approved course electives in the above areas.) Five additional units of electives are also required. These five elective units must be chosen from 500–600 level education course offerings with advisor approval.

M.A.—READING OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Satisfactorily completed Education 603 and 695;
3. Completed, with a GPA of 3.0, 15 quarter units of course work at least 10 of which must have been on this campus and approved by an advisor in the School of Education;

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

4. Secured approval of candidacy from the School of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the dean of the School of Education and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this College.
2. A minimum of 22 quarter units of credit taken after a student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of Education 697 within the last 7½ units of course work.
5. Successful completion of one of the following:

- a. Written comprehensive examination;
- b. Education 600. Master's Degree Project;
- c. Education 628. Special Projects in Reading

Students who elect to complete a project will register for Education 600 or 628 and these units may be part of the required 45 units. Students who take the comprehensive examination will select, with their advisor, an appropriate elective.

- 6. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the School of Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of reading rather than the subject matter of courses taken. The examination is offered once each quarter including summer. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in reading include: Education 603, 695, 697; and 35 units of required and elective courses distributed as follows:

Students choosing the master's project: Education 600, Education 611 for a total of 5 units, Education 612, 613, 620, 622, 625 and 631.

Students choosing the comprehensive examination: Education 611 for a total of 5 units, Education 612, 613, 620, 622, 625, 631, and 5 units of electives.

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Acceptable as electives are: Art 395, 397, Education 532, 536, 614, 624, 641, English 320, 500, 505 and Theatre Arts 481 or others upon consent of advisor.

Students choosing the special project (Education 628): Education 611 for a total of 5 units, Education 612, 613, 620, 622, 625, and 631.

M.A.—SCHOOL ADMINISTRATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
2. A valid teaching or service credential or evidence of full-time teaching or service experience;
(Note: For the administrative services credential three years of full-time teaching is required; substitute teaching does not apply.)
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Normally, a student is expected to be working concurrently for a credential in school administration.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed, with a GPA of 3.0, 15 quarter hours of course work, at least 10 of which must have been on this campus and approved by an advisor in the School of Education;
(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)
3. Satisfactorily completed Education 603 and 695;
4. Secured approval of candidacy from the School of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the school and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this College;

2. A minimum of 22 quarter units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Successful completion of both an oral and written comprehensive examination *or* completion of a master's degree project. Students who elect to complete a project will register for Education 600; these units may be part of the required 45 units;
5. Successful completion of Education 697 within the last 7½ units of course work.
6. Any additional general requirements not cited above and listed on Pages 84 and 85.

The written and oral comprehensive examination is designed to test the student's knowledge of the field of school administration. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Requirements for the Degree

Requirements for the option in school administration include: Education 603, 695, 697; and 35 units of required and elective courses distributed as follows:

Students choosing the master's project: Education 530, 600, 673, 640 and 674B, or 674C and 699, and 10 units of electives.

Students choosing the comprehensive examination: Education 530, 673, 640 and 674B, or 674C and 699, and 15 units of electives.

Approved electives: Administration 302, Education 610 or 644, 675, 676, 679D.

M.A.—SECONDARY EDUCATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a GPA of 3.0, at least 15 quarter units of applicable course work in graduate standing, at least 10 of which have been taken at this campus and approved by an advisor in the School of Education.

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

3. Satisfactorily completed Education 603 and 695;
4. Secured approval of candidacy from the School of Education;
5. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the dean of the School of Education and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, with a minimum of 32 completed in residence at this College.
2. A minimum of 22 quarter units taken after the student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of Education 610 and Education 600 or the passing of a comprehensive examination in secondary education and successful completion of Education 610 or 644. The project, part of a course or courses other than independent study, normally in the candidate's teaching area, can be reported in the form of a paper or other media. The project must be approved by the instructor and the advisor and submitted in the approved format.
5. A minimum of 25 units in courses numbered 600 or above included as part of the approved graduate program.
6. Successful completion of Education 697 within the last 7½ units of course work.
7. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the School of

Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination in secondary education.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of the field of secondary education, rather than subject matter of courses taken. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in secondary education include: Education 603, 695, 697; and 35 units of required and elective courses distributed as follows:

Students choosing the project: Education 602 (10 units), 610, 699 and 15 units of electives. The project, part of a course or courses other than independent study, normally in a candidate's teaching area, can be reported in the form of a paper or other media. The project must be approved by the instructor and the advisor and submitted in the approved format.

Students choosing the comprehensive examination: Education 602 (10 units), 610 or 644, 699 and 15 units of electives.

Electives: These units must be upper division or above, outside of the School of Education, selected with the approval of an advisor, normally in the candidate's teaching area(s).

M.A.—HISTORY AND ENGLISH OPTIONS (Secondary Education)

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or teaching experience;
2. An undergraduate major in English or history;
3. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the School of Education and the Department of English or History. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 15 quarter units of acceptable course work at this College, with the approval of the advisors and with a minimum grade-point average of 3.0. At least 5 units must be in English or history and 7½ units in education;

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

3. Satisfactorily completed Education 603 and 695;
4. Secured the approval of candidacy from the School of Education and the Departments of English or History;
5. Completed both the aptitude test and the advanced test in English or history of the Graduate Record or an equivalent examination with acceptable scores;
6. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with advisors in the School of Education and in the Departments of English or History and approved by both the school and the department and the associate dean of graduate programs.

Each student will have an advisor from the School of Education and one from either the Department of English or History. Dual signatures are necessary for initial registration for the fall quarter.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work, with 32 completed in residence at this College.
2. At least 25 quarter units of credit taken after a student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.

4. Five specified courses in education; five courses either in English or in history.
5. One project, part of an appropriate history or English course other than independent study, which can be reported in the form of a paper or other media. The project must be approved by the instructor and the advisor and submitted in the approved format. No other project, thesis or final program examination is required.
6. Successful completion of Education 697 within the last 7½ units of course work.
7. Any additional general requirements not cited above and listed on Pages 84 and 85.

Students will be encouraged to use a variety of media in presenting projects. The purpose of the project requirement is for the student to communicate ideas gathered in research, experimentation and creative endeavors; therefore, students should not feel bound to traditional forms. Each project will be planned with the cooperation of the professor concerned.

The program may not include more than 13 quarter units in extension and transfer credit from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements in education for the English and history options: Education 603, 610, 695, 697 and 699.

Requirements for the English option: English 500 *or* 505; English 611 and 650. Two upper-division courses in English are also required, chosen with the advisor's approval.

Requirements for the history option: five courses in history chosen from among the following: History 500, 513, 535, 540, 555, 556, 560, 565, 566 and 589. However, any other upper-division course in history (300 level and above) may be substituted with the advisor's approval.

M.A.—SPECIAL EDUCATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid teaching credential or evidence of full-time teaching experience;
2. A 3.0 GPA in all course work taken in education;
3. Satisfactory completion of Education 530;
4. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed the following course work in education with a 3.0 GPA: Education 532, 603, 610 or 644, and 695;

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

3. Secured approval of candidacy from the School of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and approved by the dean of the School of Education and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 units completed in residence at this College.
2. A minimum of 22 quarter units of credit taken after a student has been advanced to candidacy for the degree.
3. A grade-point average of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of either Education 600 and Education 610 or Education 644 and the comprehensive examination in special education.
5. Successful completion of Education 697 within the last 7½ units of course work.
6. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal and the project must be approved by the student's advisor and one other professor in the School of Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project. Students who elect to complete a project are not required to take a comprehensive examination.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The comprehensive examination is of an integrative nature and is designed to test the student's knowledge of a specific field, rather than subject matter of courses taken. The examination is offered once each quarter. Students must enroll in the examination either through the regular registration process or through the Office of Continuing Education in the Open College program. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student must complete a graduation check with the Office of Admissions and Records before permission to take the examination can

be granted. Students who do not receive a passing score may petition the School of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the associate dean of graduate programs to take it again. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in special education: Education 530; Education 603, 695, 697 and 35 units of required and elective courses distributed as follows:

Students choosing the master's project: Education 532, 600, 610, 625, 681, 682 and 683.

Students choosing the comprehensive examination: Education 532, 625, 644, 681, 682, 683 and 5 units of electives chosen with the approval of the special education coordinator.

M.A.—VOCATIONAL EDUCATION OPTION

Admission to the Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A valid vocational teaching credential;
2. Three letters of recommendation, one from the school where the candidate has most recently taught or is currently teaching, to be evaluated by faculty members in the program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education. No more than 20 quarter units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed, with a GPA of 3.0, 15 quarter units of course work at least 10 of which must have been on this campus and approved by an advisor in the School of Education;

(Note that between the time of completing 15 units and 23 units of applicable course work the student is required to apply for advancement to candidacy.)

3. Secured approval of candidacy from the School of Education;

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4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the School of Education and the associate dean of graduate programs;
5. Satisfactorily completed Education 603 and 695.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable work, with 32 completed in residence at this College.
2. A minimum of 22 units of credit taken after a student has been advanced to candidacy for the degree.
3. A GPA of 3.0 (B) in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program.
4. Successful completion of a master's degree project and registration in Education 600.
5. Successful completion of Education 697 within the last 7½ units of course work.
6. Any additional general requirements not cited above and listed on Pages 84 and 85.

A satisfactory project is one which can be reported in the form of a paper and/or through other media. The project proposal must be approved by the student's advisor and one other professor in the School of Education and submitted in an approved format. Further information is available from the School of Education regarding an approved format for the project proposal and project.

Students will be encouraged to present projects in a variety of media. The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors; therefore, students should not feel bound to the traditional forms. All projects will be planned in consultation with the student's advisor.

The program may not include more than 13 quarter units in approved extension and transfer courses from other colleges. California State College, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Requirements for the Degree

Requirements for the option in vocational education include: Education 603, 695, 697; 25 units of required courses: Education 600, 610, 637, 638, 639; and 10 units of electives in specialized areas.

The 10 units of electives are to be chosen from one of the following areas of emphasis in consultation with an advisor:

- A. Emphasis in coordination and supervision of designated subjects or administration—Education 507, 508, 509 and 510 *or* Education 673 and 674C. (Education 673 and 674C can only be taken if Education 507, 508, 509 and 510 have been successfully completed in an undergraduate program.)
- B. Emphasis in curriculum—Education 602 (to be taken twice; the topic career education is acceptable or other topics selected with the consent of the coordinator) and 699.
- C. Emphasis in counseling and guidance—Education 531, 650, 653.
- D. Emphasis in special education—Education 520, 522, 644, 692.

Certificate Programs

The School of Education offers certificate programs in educational computing, education of the gifted and talented, educational technology and school business management. Details concerning these programs are found beginning on Page 91.

302. EDUCATION IN AMERICAN SOCIETY

Politics, organization, structure and philosophical concepts of schooling and education including an analysis of significant problems and issues in American education. Open to students in all majors. (5 units)

330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

Learning, motivation, evaluation, and human growth and development as applied to teaching. A minimum of 24 hours per quarter of field experience at an approved setting is required. (5 units)

340. ELEMENTARY CURRICULUM AND METHODS I

Introductory course in elementary curriculum and basic teaching techniques with emphasis on mathematics and science. *Prerequisite: Education 330.* Must be taken concurrently with student teaching. (5 units)

341. ELEMENTARY CURRICULUM AND METHODS II

Introductory course in elementary curriculum and basic teaching techniques with emphasis on social science and language arts. *Prerequisite: Education 330.* Must be taken concurrently with student teaching. (5 units)

344. CURRICULUM AND METHODS FOR BILINGUAL/CROSS-CULTURAL EDUCATION

Bilingual/cross-cultural teaching strategies and materials development. Emphasis on teaching language arts in Spanish, ESL and SSL teaching techniques and development of units of study based on multi-cultural themes and concepts. *Prerequisites: Spanish 302 (or the equivalent) with grade of "C" or better and demonstrated oral competence in Spanish.* To be taken concurrently with student teaching. (5 units)

345. READING IN THE ELEMENTARY SCHOOL

Methods of teaching reading in the elementary school including skills in the diagnosis of reading difficulties, organization for instruction, selection of appropriate methods and use of instructional materials. A minimum of 24 hours per quarter of field experience at an approved setting is required. (5 units)

411. ELEMENTARY STUDENT TEACHING

Full-time teaching in the public schools. Graded credit/no credit.

- A. Must be taken concurrently with Education 340. *Prerequisite: admission to the program.* (10 units)
- B. Must be taken concurrently with Education 341. *Prerequisite: satisfactory completion of Education 411A and consent of advisor.* (10 units)

421. SECONDARY STUDENT TEACHING

Full-time teaching in the junior or senior high school. Graded credit/no credit.

- A. *Prerequisite: consent of advisor.* (10 units)
- B. *Prerequisite: Satisfactory completion of Education 421A and consent of advisor.* (10 units)

440. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION I

Introductory course in secondary curriculum and teaching methods with emphasis on instructional planning, strategies and evaluation, and classroom management. A minimum of 10 hours per quarter of classroom observations in an approved setting is required. *Prerequisite: Education 330 or concurrent enrollment in Education 330.* (5 units)

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441. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION II

Introductory course in secondary curriculum and teaching methods with emphasis on subject area materials, mediated materials, secondary curriculum and legal aspects of teaching as a profession. To be taken concurrently with student teaching. *Prerequisite: Education 330.* (5 units)

445. TEACHING READING AND WRITING IN SECONDARY SCHOOL SUBJECTS

Methods of diagnosing and teaching specific reading and writing skills in secondary school subjects. A minimum of 24 hours per quarter of field experiences in an approved setting is required. *Prerequisite: Education 330 or concurrent enrollment in Education 330.* (5 units)

501. PRINCIPLES AND METHODS FOR TEACHING DESIGNATED SUBJECTS

Consideration will be given to course and lesson planning, instruction and evaluation, human relations and cultures, curriculum, course and program administrative procedures, student support services. *Prerequisites: admission to program and/or consent of coordinator of designated subjects.* (5 units)

502. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED SUBJECTS I

Consideration will be given to laws pertaining to vocational education, youth leadership programs, budgeting, purchasing, student recruitment, selection and advisement for career education programs. *Prerequisite: Education 501 or consent of instructor or coordinator of designated subjects.* (5 units)

503. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED SUBJECTS II

Consideration will be given to work experience programs, articulation, needs assessment, competency-based curriculum and evaluation, programs for the handicapped, programs for the culturally different. *Prerequisites: Education 501 and Education 502 or consent of instructor or coordinator of designated subjects.* (5 units)

504. PRINCIPLES OF ADULT EDUCATION

History, philosophy and social significance of adult education, especially in California; the adult as a student; the characteristics of successful teachers of adults. (One of two courses required for renewal of the Fisher Bill adult education credential.) (5 units)

505. METHODS AND MATERIALS OF ADULT EDUCATION

Methods of organizing course work and presenting subject matter for adults. Classroom management, audio-visual techniques, participatory activities and evaluation procedures. (One of two courses required for renewal of the Fisher Bill adult education credential.) (5 units)

506. CONTEMPORARY ISSUES IN ADULT EDUCATION

Issues, trends and innovations in adult education. (5 units)

507. INTRODUCTION TO THE COORDINATION AND SUPERVISION OF DESIGNATED SUBJECTS PROGRAMS

Topics related to elements and techniques of coordination and supervision of designated subjects programs. *Prerequisite: admission to program and/or consent of coordinator of designated subjects program.* (2½ units)

508. ORGANIZATION AND STRUCTURE OF DESIGNATED SUBJECTS PROGRAMS

Topics related to facility planning; program evaluation, budgeting, school law, funding sources and manpower data. *Prerequisites: admission to program, Education 507 and consent of coordinator of designated subjects program.* (2½ units)

509. SUPERVISION AND PERSONNEL MANAGEMENT IN DESIGNATED SUBJECTS

Topics related to selection, evaluation, development and supervision of personnel in designated subjects programs. *Prerequisites: admission to program, Education 508 and consent of coordinator of designated subjects program.* (2½ units)

510. FIELD WORK IN COORDINATION AND SUPERVISION OF DESIGNATED SUBJECTS PROGRAMS

Supervised field work in coordination and supervision of designated subjects programs. *Prerequisites: admission to program, Education 507, 508, 509, and consent of coordinator of designated subjects program.* (2½ units)

511. CONTEMPORARY SCHOOL BUSINESS MANAGEMENT

Analysis of various approaches to school business administration, current trends, models of organization and management, relationship to county, state and federal agencies, and functions of business management in relation to the size of school districts. *Prerequisite: Administration 302 or equivalent.* (5 units)

512. SCHOOL FINANCE AND BUDGETING

Legal considerations in finance and budgeting, evolution of the California school finance program, fiscal relationship to county, state and federal agencies, budget control, school revenues and expenditures, and budgetary procedures and processes. (5 units)

513. SCHOOL ACCOUNTS AND RELATED FUNCTIONS

School fund accounting, attendance accounting, organization and review of student body accounts, state and federal project funding, and certificated and classified payroll laws and regulations pertaining to school accounting procedures. *Prerequisite: Administration 306 or equivalent.* (5 units)

514. SCHOOL BUSINESS MANAGEMENT AND SERVICE FUNCTIONS

A variable topic course on management and service functions in the school business office. Five units are required for the Certificate in School Business Management. May be repeated for credit as topics change.

- A. Purchasing, Warehousing and Inventory (2½ units)
- B. Transportation and Risk Management (2½ units)
- C. Facilities Planning, Construction (2½ units)
- D. Computer Services in Business Functions (2½ units)

530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN

Educational implications of physical, intellectual, social and emotional deviations among children and youth. (5 units)

531. INTRODUCTION TO COUNSELING

Experience-based introduction to counseling and its techniques. This course cannot be counted among the 45 units required in the counselor education option in the M.A. program. *Prerequisite: consent of instructor.* (5 units)

532. TEACHING LEARNING HANDICAPPED/SEVERELY HANDICAPPED STUDENTS

Planning and evaluating programs for learning handicapped and severely handicapped students. Course includes diagnosis and remediation. (5 units)

536. TEACHING THE CULTURALLY DIFFERENT

Cultural democracy and the quest for equal educational opportunity. Methods and teaching techniques for teaching in a multi-cultural setting. Developing cultural awareness of teachers to assist them in relating to and motivating culturally different students. (5 units)

538. INTRODUCTION TO TEACHING THE GIFTED AND TALENTED

Definition, characteristics and development of the gifted and talented individual. Identification procedures. Current legislation and educational practices. *Prerequisite: consent of instructor.* (5 units)

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539. PROGRAMS FOR TEACHING THE GIFTED AND TALENTED

Development of school programs for gifted and talented: identification, objectives, scheduling, curriculum, materials, program assessment. *Prerequisites: Education 538 and consent of instructor.* (5 units)

541. PROBLEMS IN ELEMENTARY CURRICULUM

Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.* (2–5 units)

542. SEMINAR IN EDUCATION

Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.* (2–5 units)

543. INDIVIDUALIZED INSTRUCTION

An individualized course on techniques and procedures for constructing materials, tracking students, classroom management, learning centers, record keeping and media involvement for individualizing instruction at all levels. (5 units)

544. CONSTRUCTION OF INSTRUCTIONAL MATERIALS

Various ways to design and produce instructional materials. Emphasis on use of media to meet instructional objectives. Procedures for systematic evaluation of instructional materials. (5 units)

546. MICROCOMPUTERS IN EDUCATION

Construction of programs for use on a microcomputer. Introduction to course writer languages and comparison of computer capabilities and modes. *Prerequisite: consent of instructor.* (5 units)

547. EDUCATIONAL TECHNOLOGY

Introduction to instructional systems. Components to include video-disc, satellite down links, computers, brain games and video. Storage and retrieval systems will be included. *Prerequisite: consent of instructor.* (5 units)

548. SEMINAR IN INSTRUCTIONAL DESIGN

Theories of instruction; design and production of instructional modules including specification and analysis of objectives, measurement, instructional activities and selection of methods and materials and evaluation techniques. *Prerequisite: consent of instructor.* (5 units)

551. COMPUTERS AND LEARNING

Design of courseware and use of computers in education as related to learning theory. *Prerequisites: Education 330 and 546.* (5 units)

552. COMPUTERS: CURRICULUM AND INSTRUCTION

Methodology course on teaching with computers, evaluation of courseware and methods of integrating computers in the curriculum. *Prerequisite: Education 546.* (5 units)

553. COMPUTERS: DEVELOPMENT OF INSTRUCTIONAL MATERIALS

Systematic approach to development of computer-assisted instruction materials, writing instructional objectives, design of flow charts, knowledge of authoring languages and fundamentals of software and production of courseware. *Prerequisite: Education 546.* (5 units)

595. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and school approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

600. MASTER'S DEGREE PROJECT

Prerequisite: advancement to candidacy. (5 units)

602. SPECIAL TOPICS IN SECONDARY EDUCATION

Exploration, demonstration and application of issues and techniques in selected topics of current concern in secondary education (such as, inquiry-discovery teaching, simulations and games, alternate education programs, consumer education, team teaching, career education, teacher as counselor). May be repeated for credit as topics change. (2½ units)

603. INTERPERSONAL RELATIONS AND COMMUNICATIONS IN EDUCATION

Dynamics of interpersonal communication with an emphasis on the characteristics of an individual's participation in small groups within educational structures. This course must be taken during the first 15 units of course work toward the M.A. degree or before advancement to candidacy. (2½ units)

604. ADVANCED CURRICULAR STUDIES IN ELEMENTARY EDUCATION

Current and new curricula in elementary school subjects (K–6). Five units are required in the M.A. option in elementary education. May be repeated once in the same subject area. *Prerequisite: teaching credential or consent of instructor.*

- A. Mathematics (2½ units)
- B. Science (2½ units)
- C. Social Studies (2½ units)
- D. Language Arts (2½ units)
- E. Fine Arts (2½ units)

606. METHODS AND MATERIALS FOR TEACHING BILINGUAL STUDENTS I

Bilingual/cross-cultural teaching strategies and curriculum development; methods of integrating English and Spanish in the instructional program; evaluation of language skills, emphasis on social sciences and language arts. *Prerequisite: consent of instructor.* (5 units)

607. METHODS AND MATERIALS FOR TEACHING BILINGUAL STUDENTS II

Second language acquisition theory, methods for teaching English as a second language (ESL), development and evaluation of materials for ESL instruction. (5 units)

608. RESEARCH IN BILINGUAL/CROSS-CULTURAL EDUCATION

Survey of current measurements and research in bilingual/cross-cultural education and their applications in the classroom. (5 units)

609. RESEARCH IN ELEMENTARY SCHOOL SUBJECTS

A review of research in specific subjects of the elementary school curriculum (K–6). May be repeated for credit as topics change.

- A. Mathematics (5 units)
- B. Science (5 units)
- C. Social Studies (5 units)
- D. Language Arts (5 units)
- E. Fine Arts (5 units)

610. RESEARCH METHODOLOGY IN EDUCATION

Principles of research design, methods of data collection and analysis. (5 units)

611. READING COMPREHENSION: TOPICS IN ENHANCING COMMUNICATION SKILLS

Various techniques in communication skills for enhancing reading comprehension. Course may be repeated as topics change. No more than five units are applicable to the degree. (2½ units)

612. EVALUATION OF READING TESTS AND MEASUREMENTS

Use of informal reading inventories, standardized tests and other instruments to assess student performance. *Prerequisites: Education 611 for a total of 5 units, Education 620 and 631.* (2½ units)

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613. RESEARCH METHODOLOGY IN READING

Review of reading research design, methods of data collection and analysis. *Prerequisites: Education 611 for a total of 5 units, Education 620 and 631.* (2½ units)

614. PROFESSIONAL SKILLS FOR THE READING SPECIALIST

Skills and understanding needed to provide curriculum leadership for reading programs. *Prerequisites: Education 611 for a total of 5 units, Education 612, 613, 620, 622, 625 and 631.* (2½ units)

619. APPRAISAL PROCEDURES IN COUNSELING

Individual and group measurement with emphasis on behavior observation skills, test interpretation in counseling, and an introduction to personality, intelligence, vocational, achievement and projective measurements. *Prerequisite: Education 531 with grade of B (3.0) minimum.* (5 units)

620. EFFECTIVE CLASSROOM COMMUNICATIONS

Tools and techniques of effective communication in the classroom. Emphasis on reading strategies. (5 units)

622. SELECTION OF READING APPROACHES AND MATERIALS

Making critical judgments in selection of approaches and materials based on historical views of reading. *Prerequisites: Education 611 for a total of 5 units, Education 620 and 631.* (5 units)

624. PSYCHOLOGY OF LANGUAGE, THOUGHT AND EXPRESSION

Important aspects of oral language acquisition and development; cuing systems; similarities and differences in oral and written language and implications for instruction. *Prerequisites: Education 611 for a total of 5 units, Education 620, 622 and 631; or consent of instructor.* (5 units)

625. READING CLINIC

Laboratory setting for administering diagnostic tests to clients from the community, prescribing appropriate remedies in skills and content areas. *Prerequisites: Education 611 for a total of 5 units, Education 612, 613, 620, 622 and 631.* (5 units)

628. SPECIAL PROJECTS IN READING

Research in writing of a curricular project that provides an innovative design for a significant change in a school's reading/language arts program; includes objectives, methodology, recommendations and an abstract. *Prerequisites: Education 611 for a total of 5 units, Education 612, 613, 620, 622, 625 and 631.* (5 units)

629. SPECIAL TOPICS IN READING

Relevant issues, techniques and topics in reading. May be repeated for credit as topics change. (2½ units)

630. TOPICS IN RESEARCH IN TEACHING AND LEARNING

Survey of current research in teaching and learning. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (5 units)

631. DEVELOPMENTAL READING

Overview of developmental reading for the experienced teacher; emphasis on procedures utilized at elementary and/or secondary levels. *Prerequisites: Education 611 and 620.*

637. FOUNDATIONS OF VOCATIONAL EDUCATION

Historical context, philosophy and development of vocational education. *Prerequisite: consent of coordinator of designated subjects program.* (5 units)

638. ADMINISTRATION OF VOCATIONAL EDUCATION PROGRAMS

Administrative and supervisory procedures in curriculum design, teacher education, staffing, financing, program development, community and articulation procedures. *Prerequisite: consent of coordinator of designated subjects program.* (5 units)

639. SEMINAR: SYSTEMS AND PROCEDURES IN VOCATIONAL EDUCATION

Individual and group study of problems and proposed solutions in the systems and procedures in vocational education. *Prerequisites: Education 637, 638 and consent of coordinator of designated subjects program.* (5 units)

640. ELEMENTARY SCHOOL CURRICULUM

History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education. *Prerequisite: credential or teaching experience.* (5 units)

641. MEDIA AND STRATEGIES IN TEACHING

An assessment of media used in instruction with emphasis on teaching strategies and principles of learning. (5 units)

644. PROBLEMS IN EDUCATIONAL ASSESSMENT

Teacher-made tests, standardized tests and other published instruments of use in assessing growth in the affective, psychomotor and cognitive domains. (5 units)

646. THE RESOURCE SPECIALIST IN SPECIAL EDUCATION

Development and evaluation of consultation and coordination procedures for the special education resource specialist. *Prerequisites: Education 630 and special education specialist credential or consent of instructor.* (5 units)

647. INDIVIDUAL TESTING AND CASE STUDY TECHNIQUES I

Intensive practice in administration and interpretation of Wechsler scales: Wechsler Preschool and Primary Scale of Intelligence, Wechsler Adult Intelligence Scale and Wechsler Intelligence Scale for Children Revised. *Prerequisite: pupil personnel services credential.* (5 units)

648. INDIVIDUAL TESTING AND CASE STUDY TECHNIQUES II

Intensive practice in administration and interpretation of Stanford-Binet and selected personality measures with attention to integration of results in case studies. *Prerequisite: pupil personnel services credential.* (5 units)

650. EDUCATIONAL AND CAREER PLANNING

Theory of occupational choice, labor force data, and implementation and continuation of career advisement programs. (5 units)

652. DYNAMICS OF HUMAN BEHAVIOR

Theories of human behavior, with attention to physical, psychological, individual and societal processes. *Prerequisite: Education 531 with a grade of B (3.0) minimum.* (5 units)

653. THE PROFESSIONAL GUIDANCE WORKER

Ethics and legal aspects of counseling, especially applied to educational settings; utilization of community resources; consultation; in-service training. (5 units)

655. CROSS-CULTURAL COUNSELING

Examination of diversity of cultural ethnic experiences and the nature of prejudice. Consideration of techniques found to be most effective in cross-cultural counseling. (5 units)

656. COUNSELING THEORIES AND TECHNIQUES

Theories and techniques of counseling; application to educational settings; experiential orientation. *Prerequisite: Education 531 or consent of instructor.* (5 units)

657. COUNSELING PRACTICUM

- A. Supervised practice in the application of counseling skills, theories and techniques. *Prerequisites: Education 531, 652 and 656.* (5 units)
- B. Supervised practice in counseling in a laboratory setting. *Prerequisite: Education 657A and 677 with a grade of B or better.* (5 units)

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660. SEMINAR IN DEVELOPMENT AND LEARNING

Interdisciplinary approach in understanding cognitive, social and emotional development with emphasis on developmental patterns and implications for early childhood programs. Analysis of selected research and cross cultural studies. *Prerequisite: completion of introductory course in child development or equivalent.* (5 units)

665. SEMINAR IN ADULT LEADERSHIP

Methods of composing, conducting and communicating with adult groups. Emphasis on techniques for developing interest and involvement; interpreting early education concepts to parents, para-professionals, staff, management and community agencies. (2½ units)

668. PRACTICUM: SEVERELY HANDICAPPED

Development and utilization of educational assessment techniques, counseling students and parents, directed teaching in educational settings, weekly seminars required. *Prerequisites: Education 530, 532, 644, 688.*

- A. Developmentally Disabled (5 units)
- B. Autistic (5 units)
- C. Trainable Mentally Retarded (5 units)
- D. Severely Emotionally Disturbed (5 units)

673. INTRODUCTION TO SCHOOL ADMINISTRATION

Exploration of current administrative problems at the school and district level, self-assessment of the student's potential as a school administrator. (5 units)

674. SCHOOL ADMINISTRATION AND SUPERVISION

Principles and practices of school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. *Prerequisites for B and C: Education 530 and 673.*

- A. Early Childhood Education (5 units)
- B. Elementary Education (5 units)
- C. Secondary Education (5 units)

675. LEGAL AND FINANCIAL ASPECTS OF EDUCATION

Consideration of current governance, legal and financial processes including local, state and national issues. Emphasis on recent laws and court cases affecting public schools. *Prerequisite: Education 674B or 674C.* (5 units)

676. SCHOOL COMMUNITY RELATIONS

Interaction with the community, including school boards, community groups and leaders of a variety of ethnic groups; relations with media. *Prerequisite: Education 674B or 674C.* (5 units)

677. GROUP COUNSELING AND GUIDANCE

Theories and methods of facilitating counseling and guidance in groups; educational applications; experience-based. *Prerequisites: Education 531, 652, 656, or consent of instructor.* (5 units)

679. FIELD WORK

Field experiences in selected program topics. With the exception of 679C, all topics must be repeated for a total of five units. *Prerequisite: consent of program coordinator.*

- A. Bilingual Education (2½ units)
- B. Counseling *Prerequisite: Completion of Education 657AB and 677 with a grade of B or better.* (2½ units)
- C. Reading (2½ units)
- D. School Administration (2½ units)
- E. Special Education, Learning Handicapped (2½ units)
- F. Education of the Gifted and Talented (2½ units)
- G. Education of the Severely Handicapped (2½ units)
- H. Resource Specialist *Prerequisites: Education 630, 683, 679 E. Prerequisite or corequisite: Education 646.* Five units of field work may be taken concurrently. (2½ units)

680. STUDIES IN INTERNATIONAL EDUCATION

Studies of educational systems and practices in selected countries. Techniques for research in international education. (5 units)

681. DIAGNOSTIC/PRESCRIPTIVE TECHNIQUES FOR THE LEARNING HANDICAPPED

Techniques for the assessment of learning disabilities in relation to psychological, genetic, physiological, social and cultural conditions. *Prerequisites: Education 530 and 532, or consent of instructor.* (5 units)

682. CURRICULUM DEVELOPMENT FOR LEARNING HANDICAPPED

Development and effective use of individual behavioral and instructional objectives and of appropriate instructional processes and strategies with learning handicapped. *Prerequisites: Education 530, 532, 681, or consent of instructor.* (5 units)

683. CASE WORK IN TEACHING THE LEARNING HANDICAPPED

Systematic observation, academic assessment, clinical assessment, clinical teaching and specialized formal evaluation procedures applied to learning handicapped pupils. *Prerequisites: Education 530, 532, 625, 681 and 682.* (5 units)

686. SEMINAR IN COUNSELING OF CHILDREN AND PARENTS

Study of theories and techniques in counseling with parents and children. Emphasis on methodology and application of counseling skills. *Prerequisite: pupil personnel services credential.* (2½ units)

687. SCHOOL PSYCHOLOGISTS AS CHANGE AGENTS: THEORY AND PRACTICE

Organizational models, systems analysis, powers and change theories and strategies as applied to educational institutions. *Prerequisite: pupil personnel services credential.* (2½ units)

688. ETIOLOGY AND DIAGNOSIS OF THE SEVERELY HANDICAPPED

Etiology and diagnosis of severely handicapped students; diagnostic/prescriptive programming; curriculum and methodology for various ability levels. *Prerequisites: Education 530, 532, 644.* (5 units)

689. FIELD WORK FOR SCHOOL PSYCHOLOGISTS

Supervised field work for prospective school psychologists in the schools. Regular seminars and conferences required. *Prerequisites: pupil personnel services credential and Education 647, 648, 660, 681, 686, and Psychology 391 or consent of instructor.*

A. (2½ units)

B. (2½ units)

C. (2½ units)

693. SPECIAL TOPICS IN SCHOOL PSYCHOLOGY

Selected topics in school psychology, such as professional issues, ethics and current practices, applicable State Education Codes and court decisions, use of community resources; in-service training theory and practicum. May be repeated for credit as topics change. *Prerequisites: pupil personnel services credential, Education 647, 648, 660, 681, Psychology 391 or consent of instructor.* (5 units)

695. FOUNDATIONS OF EDUCATION

History and theory of education within the setting of American society. This course must be taken during the first 15 units of course work toward the M.A. degree or before advancement to candidacy. (5 units)

696. SPECIAL TOPICS IN COUNSELOR EDUCATION

Relevant issues in counselor education. May be repeated for credit as topics change. (2½ units)

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697. ASSESSMENT SEMINAR

Emphasizes interpretation of roles, processes and relationships within educational structures relative to personal orientation, beliefs and values. *Prerequisites: Education 603, 695 and consent of advisor.* This course must be taken during the last 7½ units of course work toward the M.A. degree. (2½ units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of school.* (0 units)

699. SECONDARY SCHOOL CURRICULUM

Study of the development of the American secondary school with emphasis on current and emerging patterns of organization and curriculum. *Prerequisite: graduate standing.* (5 units)

ENGLISH

Department of English
Pfau Library Building, Room 248
887-7446

Everyone has his or her own reasons for studying literature but these personal feelings tend to take for granted one common notion: the experience of great poetry, fiction and drama makes people more aware of themselves and their world, more human.

The English department at California State College, San Bernardino is, like most college or university English departments, devoted mainly to the study of literature. The literature courses are arranged in different ways; some analyze a specific genre (poetry, fiction, drama); some treat a particular period (the sixteenth century, the Romantic period); some deal with an individual author, area or problem (Shakespeare, modern American poetry, Black literature, fantasy).

The department offers additional courses in the history and structure of the language and in advanced composition. Courses in creative writing give students the opportunity to write poetry or fiction under the direction of an experienced writer. Courses in journalism give students the chance to develop professional skills under the direction of a working newswriter.

English majors enter many careers, such as teaching, journalism, publishing, advertising, writing, business and industry. They may also enter graduate and professional schools for the further study of English or for training in such fields as library science and law. Students having the abilities the English major is designed to foster—perceptive reading, skillful writing and a developed sense of imagination and originality—are particularly well-equipped for the needs of a changing society.

Students majoring in English who also wish to pursue a liberal studies major (diversified major) for elementary school teaching should consult with the department chair.

Requirements for the Bachelor's Degree

Requirements for the major: 13 courses, of which 11 must be upper division. Required are two courses from English 120, 121, 140; two courses from English 301, 302, 303; two courses from English 401, 403, 406, 409, 412, 415; two courses from English 315, 325, 335; one course from English 430, 432, 436; one course from English 475, 476; English 311. The additional two courses may be chosen from any upper-division English courses or from upper-division courses in foreign literature or foreign literature in translation.

With the approval of the department, a student may develop an alternative program of study leading to the major. Such a program will require about the same amount of course work as described above, although with a different distribution. It also will require, in the senior year, completion of a comprehensive examination with a satisfactory score or a special writing project.

Requirements for a minor in English: six courses, including a course in the study of language (English 311); a survey course in literature (English 110, 111, 120, 121, 140 or 170); an upper-division course in literary analysis (English 301, 302 or 303); an upper-division course in modern literature (English 442, 446, 455 or 456); an upper-division course in Shakespeare (English 475 or 476); an upper-division English elective (except English 300, 372, 399 and 495).

MASTER OF ARTS IN ENGLISH COMPOSITION

The M.A. in English composition is designed for students interested in pursuing studies in language and writing. The program aims to provide practical experience and techniques in the teaching and/or application of writing in a variety of contexts.

The unique internship component of the English Composition M.A. allows students an opportunity to transfer their knowledge to settings other than public and private schools, thereby enhancing their options for employment in fields other than teaching.

Admission to the M.A. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in English, or the following courses taken in conjunction with some other major: English 495; English 311 or 500 or 505; two courses from English 301, 302, 303; one course from English 120, 121, 140; English 475 or 476; one course from English 430, 432, 436; two courses from English 401, 403, 406, 409, 412, 415; one English elective; and
2. A grade-point average of 3.0 in all upper-division English courses.
3. Admission to the program will additionally be based upon evaluation by the English Department graduate committee of the following.
 - a. Three letters of recommendation supporting the student's application. Letters should be from people able to assess the student's competence in English and writing and to make relevant comments on the student's likely success in a graduate composition program; and
 - b. A 500-word statement of the goals and professional aspirations, to be submitted by the applicant.

Unclassified postbaccalaureate students who have not fulfilled the above requirements may be admitted to the program as conditionally classified graduate students following review by the Department of English graduate committee. To attain fully classified status, such students must satisfy conditions set by the Department of English graduate committee, usually including completion of at least 15 quarter units of appropriate course work at California State College, San Bernardino with a grade-point average of 3.0 or better.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor selected from the faculty of the Department of English;
3. Completed at least 15 quarter units of applicable course work as a graduate student at this college, with the approval of the major advisor, and with a minimum grade-point average of 3.0;
4. Submitted a formal program of graduate course work and thesis topic, prepared in consultation with the major advisor and with approval of the Department of English graduate committee; and
5. Gained final approval of the program, including thesis topic, and of the candidacy itself by the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of acceptable graduate-level work included in the formal program, with not fewer than 32 completed in residence at this college and with at least 22½ units gained from 600-level courses in English.
2. Advancement to candidacy for the degree and approval of the specific program of courses and thesis research topic.
3. A grade-point average of 3.0 (B) in all graduate course work and research fulfilling the requirements of the Master of Arts in English Composition and grades of "C" (2.0) or better in all courses in the program.
4. Completion of an acceptable thesis.
5. A reading knowledge of one foreign language is strongly recommended.
6. Any general requirements not cited above and noted on Pages 84 and 85.

Requirements for the Degree

Requirements for the M.A. in English Composition include: English 611, 621, 650, 660, 662, 690, 699A/B/C and 10 units of electives. The elective component of the program requires students to select two courses appropriate to the study of writing and suitable to each student's specific goals. Courses may be chosen from upper-division and graduate offerings of any department in the College, subject to advance approval by the English graduate committee.

Certificate Program

The College offers a certificate in writing. Details concerning this program are found on Page 105.

80. ENGLISH FOR FOREIGN STUDENTS

Principles of English for foreign students: composition and reading. Units awarded for English 80 are not applicable to a baccalaureate degree. (5 units)

100. INTENSIVE ENGLISH

Intensive work in writing fundamentals. Graded A, B, C/No Credit. Not open for credit to students who have received credit for English 101. Lecture and one hour of writing laboratory. (5 units)

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101. FRESHMAN COMPOSITION

Analytical study of the language and structure of prose to help students develop a clear, mature and flexible expository style. Frequent writing required. Graded A, B, C/No Credit. *Prerequisite: essay score of seven or greater and total score of 150 or greater on the English placement test, or completion of the test and at least a grade of C in English 100.* (5 units)

110. WORLD LITERATURE I

Readings in Oriental and continental European literature to the Renaissance (in English translation). (5 units)

111. WORLD LITERATURE II

Readings in Oriental and continental European literature from the Renaissance to the contemporary period (in English translation). (5 units)

120. ENGLISH LITERATURE I

Readings in English literature from the Middle Ages to Milton. (5 units)

121. ENGLISH LITERATURE II

Readings in English literature from Dryden to the contemporary period. (5 units)

140. SURVEY OF AMERICAN LITERATURE

Readings in major figures in American literature from the Puritans to the present. (5 units)

170. STUDIES IN LITERATURE

Analysis of the forms and content of literature. (5 units)

300. ENGLISH WORKSHOP

An intermediate-level refresher course in writing designed to prepare students for advanced work in composition. Concentration on specific techniques. May not be counted toward fulfilling requirements in the English major and does not fulfill the upper-division writing requirement. Not open to students who have already completed English 495, Administration 495, Natural Sciences 495, Social Sciences 495 or Humanities 495. Graded A, B, C/No Credit. *Prerequisite: English 101.* (5 units)

301. ANALYSIS OF POETRY

An approach to an understanding of the literary experience through a study of structure and theme in selected lyric poems. (5 units)

302. ANALYSIS OF DRAMA

An approach to an understanding of the literary experience through a study of structure and theme in selected plays. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

303. ANALYSIS OF PROSE FICTION

An approach to an understanding of the literary experience through a study of structure and theme in selected pieces of narrative prose. (5 units)

Students are strongly advised to take one or more of the analysis courses (English 301, 302, 303) before taking other upper-division courses.

311. THE ENGLISH LANGUAGE

Introduction to the structure and development of the English language. (5 units)

313. INTRODUCTION TO CREATIVE WRITING

Workshop in imaginative writing. Discussion of student writing and exemplary works by established authors. (5 units)

315. STUDIES IN LITERARY GENRES

Intensive study in a particular genre. May be repeated for credit as topics change. (5 units)

320. CHILDREN'S LITERATURE

History and development of children's literature; emphasis on developing skills in analyzing, evaluating and selecting books for children. (5 units)

325. STUDIES IN MAJOR LITERARY FIGURES

Intensive study in two or more literary figures. May be repeated for credit as topics change. (5 units)

333. MYTH AND EPIC

Myths and epics of folklore and of classical literature, emphasizing relationship to later Western literature. (5 units)

335. STUDIES IN THE NOVEL

Studies in the novel with emphasis on close reading of specific texts. (5 units)

370. THEORY AND PRACTICE OF NEWSPAPER JOURNALISM

Practice in writing and editing will be emphasized. Consideration of the press in its social and historical context. (5 units)

372. JOURNALISM PRACTICUM

Practical application of journalism skills. To be taken concurrently with, or subsequent to, English 370. May be repeated for credit for a total of not more than 6 units. Graded credit/no credit. (2 units)

385. INTRODUCTION TO LITERARY CRITICISM

The major issues in literary criticism considered in historical perspective. (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of 6 units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisites: consent of department.* (Credit to be arranged: 1 or 2 units)

401. ENGLISH LITERATURE OF THE MIDDLE AGES

Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory. (5 units)

403. ENGLISH LITERATURE OF THE RENAISSANCE

Poetry, prose and drama of the 16th century. (5 units)

406. SEVENTEENTH CENTURY LITERATURE

English prose and poetry from Bacon through Milton. (5 units)

409. ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY

Emphasis on Dryden, Pope, Swift and Johnson. (5 units)

412. ROMANTIC PROSE AND POETRY

Major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron. (5 units)

415. VICTORIAN LITERATURE

Major writers of Victorian England. (5 units)

430. AMERICAN LITERATURE I

Colonial and Federal American literature to the early nineteenth century. (5 units)

432. AMERICAN LITERATURE II

Romantic movement in American literature. (5 units)

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436. AMERICAN LITERATURE III

Age of realism in American literature. (5 units)

439. BLACK LITERATURE

Literature by and about Black people. Emphasis on the contribution of Black writers to the American cultural heritage. (5 units)

442. MODERN POETRY

Modern and contemporary poetry. (5 units)

446. MODERN FICTION

Modern and contemporary fiction. (5 units)

450. CLASSICAL DRAMA

Development of comedy and tragedy in Greece and Rome. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

455. MODERN DRAMA I

European, English and American realism. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

456. MODERN DRAMA II

European, English and American anti-realism. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

475. SHAKESPEARE I

Comedies and histories. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

476. SHAKESPEARE II

Tragedies and romances. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

495. EXPOSITORY WRITING

Advanced expository writing including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495) may be taken for credit. Graded A, B, C/No Credit. *Prerequisites: English 101 and a minimum of 90 quarter (60 semester) units of college credit.* (5 units)

500. GRAMMAR AND LINGUISTICS

An introduction to the attitudes, theories and techniques of modern grammar and linguistic science. *Prerequisite: English 311.* (5 units)

505. HISTORY OF THE ENGLISH LANGUAGE

Development of the English language from the beginning to the present. *Prerequisite: English 311.* (5 units)

513. ADVANCED CREATIVE WRITING

Intensive writing workshop in one genre: poetry, fiction, autobiography or others. Emphasis will change from quarter to quarter. May be repeated for credit as subject matter changes. *Prerequisite: consent of instructor.* (5 units)

522. INDEPENDENT STUDY IN WRITING

Project in advanced writing: fiction, non-fiction, poetry or drama. An outline of the project must be approved during the junior year and the completed project approved at least one quarter before graduation. This project may, upon special recommendation, substitute for the comprehensive examination. *Prerequisites: English 513 and departmental approval.* (5 units)

530. METHODS OF TUTORING WRITING

Study of the theory, principles and methods of tutoring students who need specific practice in writing. Those completing this course with a grade of B or better are eligible to participate in tutorial writing services on campus. May not be counted toward fulfilling requirements for the English or liberal studies major or the M.A. in English Composition. Students in this class are expected to be proficient writers. *Prerequisites: English 101 and consent of instructor.* (2½ units)

565. SPECIAL STUDIES IN WRITING

Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. *Prerequisite: consent of instructor.*

A. (2½ units)

B. (2½ units)

570. SEMINAR IN ENGLISH LITERATURE

May be repeated for credit with consent of instructor. *Prerequisite: English 301 or 302 or 303, or graduate standing.* (5 units)

580. SEMINAR IN AMERICAN LITERATURE

May be repeated for credit with consent of instructor. *Prerequisite: English 301 or 302 or 303, or graduate standing.* (5 units)

595. SPECIAL STUDIES IN LITERATURE

Independent studies of selected literary figures or study in a special area of literary theory or history. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

611. THEORY OF RHETORIC AND COMPOSITION

Traditional and contemporary approaches to rhetoric, composition and style. (5 units)

621. APPROACHES TO IMAGINATIVE WRITING

Traditional and contemporary approaches to imaginative writing; emphasis on means of encouraging different styles and modes of expression. *Prerequisite: English 313 or 513 or consent of instructor.* (5 units)

631. APPROACHES TO PROFESSIONAL WRITING

Emphasis on writing and teaching the techniques of composing professional reports, abstracts, reviews, and of editing technical manuals and preparing articles for professional journals. (5 units)

650. APPROACHES TO LITERATURE

Study and practice of various critical approaches, such as the moral, formalistic, psychological, archetypal, with particular attention to their assumptions about the meaning and function of literature. (5 units)

660. PROBLEMS IN WRITING

Seminar in the development of techniques to resolve specific problems of student writing. This course will include an internship component. *Prerequisite: English 611. May be repeated once for credit.* (5 units)

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662. INTERNSHIP IN COMPOSITION

A practical application of the principles studied in English 660. Supervised tutorial work in practical situations dealing with composition. *Prerequisites: English 611 and 660.* (2½ units)

666. SEMINAR IN WRITING

Studies in particular topics in writing. May be repeated for credit as topics change; a maximum of 10 units of credit may be applied to the M.A. in English Composition program. *Prerequisite: consent of instructor.* (2½ units)

670. WRITING ACROSS THE DISCIPLINES

Approaches to writing used in disciplines other than English. Emphasis on development of assignments and varying forms of presentation. *Prerequisite: consent of instructor.* (5 units)

690. RESEARCH TECHNIQUES

Critical study of research methods and resources, including bibliography. Topics covered will be appropriate to a focus on English composition. (5 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of Graduate Advisory Committee.* (0 units)

699. MASTER'S DEGREE THESIS AND RESEARCH

Topic must be appropriate to a focus on English composition. *Prerequisite: advancement to candidacy to register for 699B and C.*

A. (2½ units)

B. (2½ units)

C. (2½ units)

ENVIRONMENTAL STUDIES

*Department of Geography
Student Services Building, Room 139
887-7280*

To accomplish its principal objective of promoting an understanding of the interaction of human beings with their environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's eco-system—principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of human beings upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career. Professional opportunities for graduates include a wide range of tasks in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

Requirements for the Bachelor's Degree

Requirements for the major: the prospective major in environmental studies may elect to pursue one of two alternatives, Track A or Track B.

Track A

Basic core:

BIOLOGY 202. BIOLOGY OF POPULATIONS

CHEMISTRY 205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY

MATHEMATICS 350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION

or

SOCIAL SCIENCES 215. STATISTICS FOR THE SOCIAL SCIENCES

Three of the following:

EARTH SCIENCE 101. PHYSICAL GEOLOGY

224 / Environmental Studies

GEOGRAPHY 103. PHYSICAL GEOGRAPHY

PHYSICS 100. PHYSICS IN THE MODERN WORLD

or

PHYSICS 121 and 225. BASIC CONCEPTS OF PHYSICS I

CHEMISTRY 206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY

BIOLOGY 200. BIOLOGY OF THE CELL

BIOLOGY 201. BIOLOGY OF ORGANISMS

HEALTH SCIENCE 120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

Upper-division core:

GEOGRAPHY 350. CONSERVATION AND NATURAL RESOURCES

GEOGRAPHY 360. CLIMATE AND VEGETATION

GEOGRAPHY 370. LANDFORMS, SOILS AND REMOTE SENSING

ECONOMICS 360. ECONOMICS OF THE ENVIRONMENT

or

HEALTH SCIENCE 401. LAND USE: HEALTH ASPECTS

Electives:

A major in Track A must have six of the following electives with at least two courses from each of the following groups provided that none of these courses have been used elsewhere to meet the requirements of this major.

Group 1

BIOLOGY 319. LOCAL FLORA

BIOLOGY 220. PRINCIPLES OF MICROBIOLOGY

BIOLOGY 352C. BIOSYSTEMATICS AND CLASSIFICATION OF VASCULAR PLANTS

BIOLOGY 370. SYMBIOSIS

BIOLOGY 450. ECOLOGY

GEOGRAPHY/BIOLOGY 460. BIOGEOGRAPHY

HEALTH SCIENCE 352. ENVIRONMENTAL HEALTH I

HEALTH SCIENCE 353. ENVIRONMENTAL HEALTH II

HEALTH SCIENCE 458. VECTOR CONTROL: FACTORS INFLUENCING ENVIRONMENT AND HEALTH

Group 2

ADMINISTRATION 301. MANAGEMENT PRACTICES

ANTHROPOLOGY 475. CULTURAL ECOLOGY

ECONOMICS 360. ECONOMICS OF THE ENVIRONMENT

POLITICAL SCIENCE 342. THE POLITICS OF ENVIRONMENT

GEOGRAPHY 301. CARTOGRAPHY

GEOGRAPHY 380. POPULATION GEOGRAPHY

GEOGRAPHY 410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT

GEOGRAPHY 415. URBAN PLANNING AND LAND DEVELOPMENT

**HEALTH SCIENCE 372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL
IMPACT REPORTING**

HEALTH SCIENCE 401. LAND USE: HEALTH ASPECTS

Optional courses not a part of the major:

Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

Track B

Basic core:

BIOLOGY 200. BIOLOGY OF THE CELL

BIOLOGY 201. BIOLOGY OF ORGANISMS

BIOLOGY 202. BIOLOGY OF POPULATIONS

**CHEMISTRY 215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND
CHEMICAL BONDING**

**CHEMISTRY 216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL
REACTIONS**

**CHEMISTRY 217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE
ANALYSIS**

MATHEMATICS 350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION

PHYSICS 100. PHYSICS IN THE MODERN WORLD

or

PHYSICS 121 and 225. BASIC CONCEPTS OF PHYSICS I

Upper-division core:

GEOGRAPHY 350. CONSERVATION AND NATURAL RESOURCES

GEOGRAPHY 360. CLIMATE AND VEGETATION

226 / Environmental Studies

GEOGRAPHY 370. LANDFORMS, SOILS AND REMOTE SENSING

ECONOMICS 360. ECONOMICS OF THE ENVIRONMENT

or

HEALTH SCIENCE 401. LAND USE: HEALTH ASPECTS

Electives: one of the following pairs must be chosen:

CHEMISTRY 225. ORGANIC CHEMISTRY I and CHEMISTRY 226. ORGANIC CHEMISTRY II

or

BIOLOGY 370. SYMBIOSIS and BIOLOGY 450. ECOLOGY

In addition, a major in environmental studies with Track B must have any two of the following provided that neither has been used in the pairs above.

EARTH SCIENCE 101. PHYSICAL GEOLOGY

BIOLOGY 319. LOCAL FLORA

BIOLOGY 352C. BIOSYSTEMATICS AND CLASSIFICATION OF VASCULAR PLANTS

BIOLOGY 370. SYMBIOSIS

BIOLOGY 450. ECOLOGY

BIOLOGY/GEOGRAPHY 460. BIOGEOGRAPHY

CHEMISTRY 225. ORGANIC CHEMISTRY I

CHEMISTRY 226. ORGANIC CHEMISTRY II

HEALTH SCIENCE 352. ENVIRONMENTAL HEALTH I

HEALTH SCIENCE 353. ENVIRONMENTAL HEALTH II

Optional courses not a part of the major:

Students are encouraged to continue their studies of the environment through the use of independent study courses and approved internships.

Honors in the Major: Students majoring in environmental studies are eligible to receive honors in environmental studies at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department secretary.

ETHNIC STUDIES

The College, as part of its ethnic studies program, offers a variety of subject matter options. These include the history major with options in Black studies or Mexican-American studies and the sociology major with options in Black studies or Mexican-American studies. In addition, a group of three ethnic studies courses may be selected for a supporting field in a social sciences major. Besides these, the College offers ethnic studies courses as electives.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration.

The ethnic studies option in sociology requires Social Sciences 215 or Sociology 308 or equivalent; Sociology 100, 305, 310, 312; four courses in either Mexican-American studies or Black studies, and two additional sociology courses which fulfill requirements for the sociology major.

Inquire at the History Department Office, Administration Building, Room 130 (Telephone 887-7239) for information concerning an ethnic studies emphasis in history. Inquire at the Sociology Department Office, Administrative Building, Room 183 (Telephone 887-7224) for information concerning an ethnic studies option in sociology. Academic advising and counseling are also available at both offices.

ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA

ANTHROPOLOGY 352. INDIANS OF THE SOUTHWEST

ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA

ART 328. MEXICAN ART

ART 329. CHICANO ART

EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT

ENGLISH 439. BLACK LITERATURE

HISTORY 331. BLACK HISTORY I: THE AFRICAN EXPERIENCE

HISTORY 334. BLACK HISTORY II: THE AMERICAN EXPERIENCE

HISTORY 390. HISTORY OF MEXICO

HISTORY 391. CHICANO HISTORY

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HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT

INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

MUSIC 350. MUSIC OF OTHER CULTURES

MUSIC 351. MEXICAN AND CHICANO MUSIC

MUSIC 352. AFRO-AMERICAN MUSIC

POLITICAL SCIENCE 306. DEVELOPING POLITICAL SYSTEMS

POLITICAL SCIENCE 350. POLITICS OF BLACK AMERICA

POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA

SOCIOLOGY 322. SOCIOLOGY OF THE GHETTO

SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SOCIOLOGY 441. BLACK SOCIAL STRATIFICATION

SOCIOLOGY 442. CHICANO SOCIAL STRATIFICATION

SPANISH 440. MEXICAN LITERATURE

SPANISH 450. MEXICAN LITERATURE IN TRANSLATION

FOREIGN LANGUAGES AND LITERATURES

*Department of Foreign Languages
Pfau Library Building, Room 276
887-7445*

The Department of Foreign Languages offers a wide variety of courses both in the foreign languages and in English. The foreign languages include French, German and Spanish. The offerings of each language can be found separately listed in alphabetical order. Courses that apply comprehensively to all languages, including English, appear below.

The principal objectives of the department's programs are to teach students to understand, speak, read and write the foreign languages offered; and to promote an understanding of foreign civilizations and an appreciation of their literatures. This background will prepare students to teach foreign languages and will provide language skills for those interested in positions such as librarian, interpreter, translator, foreign service officer and foreign trade specialist.

The Cooperative Program in Foreign Language and Literature gives students the opportunity, without additional fees, to take courses in foreign languages not available on this campus or any neighboring CSU campus but offered at UCLA. For information regarding enrollment and qualifications, interested students should inquire at the Department of Foreign Languages and Literatures.

100. ENGLISH AS A SECOND LANGUAGE

Self-paced course designed to help students gain mastery of the English language at beginning, intermediate and advanced levels. No more than 10 units are applicable to a baccalaureate degree. Open only to foreign students for whom English is a second language. *Prerequisite: consent of instructor.* (5 units)

295. INDEPENDENT LANGUAGE STUDY

For the occasional student seeking the equivalent of a lower-division language course not offered in the regular classroom format. Course may be repeated for credit. *Prerequisite: consent of department.* (5 units)

450. LITERATURE IN TRANSLATION

Significant masterpieces of a genre or a period read in English translation. No prerequisite. May be repeated for credit as topics change. When the topic of Foreign Languages 450 is Mexican literature, this course may not be taken for credit by a student who has received credit for Spanish 450. (5 units)

555. INDEPENDENT STUDY

Independent study of individual writers and genres. *Prerequisite: one 300-level course in the language under study or consent of instructor, a minimum overall grade-point average of 3.0, departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (5 units)

FRENCH

Department of French

Pfau Library Building, Room 276

887-7445

The study of French combines training in foreign studies with language, literature and culture. These studies contribute to the basis of any program of liberal education, affording insight into foreign attitudes and methods and permitting free communication, written and oral, among people.

In addition to the traditional preparation of teachers in the subject, a major in French can provide a good background for advanced professional or business programs, especially when combined with an appropriate second major.

Attention is drawn to other courses which may be of interest to French majors: Humanities: 350, 460, 499; Foreign Languages 295, 450, 555.

Requirements for the Bachelor's Degree

Requirements for the major: 70 quarter units in French. Proficiency in French equal to that of French 104 or its equivalent; plus French 200, 210, 301; plus two courses chosen from the following: French 311, 312, 313, 314; the remaining courses may be chosen from any of the French offerings. One course in Humanities 460 (when the topic is France) and one course in Foreign Languages 450 or History 535 (when the topic is France) will be accepted toward the major.

Requirements for the minor in French: 40 quarter units in French. Proficiency in French equal to that of French 104 or its equivalent; plus French 200, 210, 301 and additional course(s) at the 300 level.

Certificate Program

The Department of Foreign Languages and Literatures offers a certificate program for French/English and English/French translators. Details concerning this program are found on Page 96.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours. These courses are offered in a self-paced format as well as a traditional format.

101. ELEMENTARY FRENCH I

Pronunciation, grammar, reading and conversation. (5 units)

102. ELEMENTARY FRENCH II

Continuation of French 101. (5 units)

103. INTERMEDIATE FRENCH I

Grammar, composition and conversation; discussion in French of literary texts. *Prerequisite:* French 102 or equivalent. (5 units)

104. INTERMEDIATE FRENCH II

Continuation of French 103. (5 units)

200. CONVERSATION AND COMPOSITION

Prerequisite: French 104 or equivalent. (5 units)

210. INTRODUCTION TO LITERARY STUDY

Techniques of literary study and analysis. Explication de textes. *Prerequisite: French 104 or equivalent.* (5 units)

Ordinarily, upper-division courses are conducted in French. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. PHONETICS

French phonology, with emphasis on improvement of the students' pronunciation. *Prerequisite: French 200 or equivalent.* (5 units)

302. ADVANCED FRENCH COMPOSITION

Structure of the French language, with emphasis on improvement of the students' ability to write French. *Prerequisite: French 200 or equivalent.* (5 units)

309. FRENCH FOR TRANSLATORS

Extensive practice in precise written translations from French into English and from English into French. Self-paced course. May not be counted toward fulfilling the requirements in the French major. *Prerequisite: French 302.*

A. (5 units)

B. (5 units)

C. (5 units)

311. MASTERPIECES OF FRENCH LITERATURE I

Middle Ages and sixteenth century. *Prerequisite: French 210 or equivalent.* (5 units)

312. MASTERPIECES OF FRENCH LITERATURE II

Seventeenth and eighteenth centuries. *Prerequisite: French 210 or equivalent.* (5 units)

313. MASTERPIECES OF FRENCH LITERATURE III

Nineteenth century. *Prerequisite: French 210 or equivalent.* (5 units)

314. MASTERPIECES OF FRENCH LITERATURE IV

Twentieth century. *Prerequisite: French 210 or equivalent.* (5 units)

340. ADVANCED CONVERSATION

Advanced practice of oral French stressing the reading and discussion of current topics in France. May be repeated for credit. *Prerequisite: French 200 or consent of instructor.* (2½ units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

420. SPECIAL TOPICS IN FRENCH LITERATURE

Topics such as the role of nature in French literature. May be repeated for credit. *Prerequisites: two 300-level courses in French literature or equivalent.* (5 units)

GEOGRAPHY

Department of Geography

Student Services Building, Room 139

887-7280

Geography is concerned with the spatial variations and interrelations of the natural and cultural features of the earth. Geographers study the earth primarily as the home of human beings. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both humans and their environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, and international organizations.

Requirements for the Bachelor's Degree

The geography major involves a two-track system, Track A and Track B. Requirements for all majors include the following core: Geography 100, 103, 360 or 370, 380, 420 and one area study. Cartography (Geography 301) is highly recommended for all Track A and Track B majors.

Track A requires that students take, in addition to the core, 20 units of upper-division course work in geography. Only five of these units may be drawn from the area studies group.

Track B requires that students take, in addition to the core, 20 units of upper-division course work in geography and/or related disciplines. These units, selected in consultation with an advisor, must be from one of the following fields of study: urbanization, modernization, area studies, earth science, or environmental analysis.

Requirements for a minor in geography: 30 units in geography including the series 100, 103, 420. The remaining 15 units can be chosen from any of the upper-division geography offerings with the restriction that only five units can be an area study.

Certificate Program

The department offers a certificate program in Urban Planning. Details concerning this program are found on Page 104.

100. INTRODUCTION TO HUMAN GEOGRAPHY

Introduction to the geographic study of human activities throughout the world. (5 units)

103. PHYSICAL GEOGRAPHY

Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Lecture and laboratory. (5 units)

301. CARTOGRAPHY

Provides students with necessary drafting skills to construct maps, charts and graphs as well as training in map interpretations. *Prerequisite: consent of instructor.* (5 units)

302. GEOGRAPHY OF CALIFORNIA

Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment. (5 units)

309. AREA STUDY: SOVIET UNION

Regional analysis of socio-economic development and environmental problems. (5 units)

321. AREA STUDY: LATIN AMERICA

Regional analysis of socio-economic development and environmental problems. (5 units)

350. CONSERVATION AND NATURAL RESOURCES

Principles of resource utilization and ecology as they involve human development and politico-economic policy. (5 units)

360. CLIMATE AND VEGETATION

Climate and vegetation, and the interrelationships between the two including the consideration of atmospheric processes significant for understanding regional patterns of distribution. *Prerequisite: Geography 103 or consent of instructor.* (5 units)

370. LANDFORMS, SOILS AND REMOTE SENSING

Landscape analysis through techniques including interpretation of maps, aerial photographs, satellite imagery and geographic field data; considers selected surface features, developmental processes and principles of environmental remote sensing. *Prerequisite: Geography 103, or Earth Science 101, or consent of instructor.* (5 units)

380. POPULATION GEOGRAPHY

Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis. (5 units)

390. SELECTED TOPICS IN GEOGRAPHY

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (5 units)

392. SELECTED TOPICS IN GEOGRAPHY

Examination of selected topics of current interest in geography. May be repeated for credit as topics change. (2½ units)

410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT

Application of concepts of location, spatial organization and spatial interaction to regional planning and resource development. (5 units)

415. URBAN PLANNING AND LAND DEVELOPMENT

Comprehensive urban planning and land use controls. Emphasis on impact of urban development in North America. (5 units)

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420. GEOGRAPHY OF ECONOMIC ACTIVITY

Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization. (5 units)

440. URBAN GEOGRAPHY

Description and classification of cities, analysis of their distribution, and a study of the external and internal relations of urban areas. (5 units)

460. BIOGEOGRAPHY

Investigation of plants and animals according to their environmental and spatial relationships. Biogeographic theory and regions will be examined; agents of biotic distribution and human influences will be noted. (Also offered as Biology 460. Students may not receive credit for both.) *Prerequisites:* upper-division standing, Geography 103, and Biology 201 or 202; or consent of instructor. (5 units)

575. INTERNSHIP IN GEOGRAPHY

Supervised work in public or private organizations emphasizing practical applications of geographic concepts. May be repeated once for credit. Graded credit/no credit. *Prerequisites:* consent of instructor and department. (5 units)

595. INDEPENDENT STUDY

A total of 10 units in Geography 595 may be applied toward the major and graduation. *Prerequisites:* A minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 2 to 5 units)

GERMAN

*Department of Foreign Languages
Pfau Library Building, Room 276
887-7445*

The German program, open to all interested students, offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Germany, Austria and Switzerland. Information on the special interdisciplinary major in German area studies may be obtained from the Department of Foreign Languages.

Courses taught in English are listed under Foreign Languages (Page 229) and Humanities (Page 253). Courses listed below are offered both to fulfill general education requirements and to support other major programs.

Requirements for the Minor

Requirements for a minor in German: German 101, 102, 103, 202, 309, and one additional course at the 300 level.

Certificate Program

The Department of Foreign Languages and Literatures offers a certificate program for German/English and English/German translators. Details concerning this program are found on Page 96.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. ELEMENTARY GERMAN I

Pronunciation, grammar, reading and conversation. (5 units)

102. ELEMENTARY GERMAN II

Continuation of German 101. (5 units)

103. INTERMEDIATE GERMAN I

Reading and discussion of modern German prose and poetry, grammar review, composition and conversation. *Prerequisite: German 102 or equivalent.* (5 units)

202. GERMAN CONVERSATION

Basic conversational German stressing cultural aspects and their application to contemporary situations in German speaking environments. *Prerequisite: German 103 or consent of instructor.* (5 units)

Ordinarily, upper-division courses are conducted in German. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

236 / German

308. READINGS IN GERMAN LITERATURE

Selected literary genre or writer. May be repeated for credit as topics change. *Prerequisite: German 103 or consent of instructor.* (5 units)

309. ADVANCED GERMAN COMPOSITION

Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing. *Prerequisite: German 103 or consent of instructor.* (5 units)

310. ADVANCED GERMAN CONVERSATION

Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals. *Prerequisites: German 103 and German 202 or consent of instructor.* (5 units)

311. INTRODUCTION TO GERMAN LITERATURE

Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures. *Prerequisite: German 103 or consent of instructor.* (5 units)

312. PRACTICAL TRANSLATION

Translation from German to English and from English to German of materials useful in business, politics and tourism. Use of language lab is required. *Prerequisite: German 103 or consent of instructor.* (5 units)

313. TECHNICAL AND SCIENTIFIC TRANSLATION

Translation from German to English and English to German of technical and scientific material. Use of language lab is required. *Prerequisite: German 103 or consent of instructor.* (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

HEALTH SCIENCE

Department of Health Science and Human Ecology
Physical Sciences Building, Room 119
887-7348

Students interested in personal growth, community service, intellectual stimulation and professional career opportunities in the health and environmental fields may find the major in health science a method to achieve these goals.

The Department of Health Science and Human Ecology offers a bachelor of science degree as well as several certificates in specialized areas. The department emphasizes an ecological approach to health and attempts to provide students with the tools necessary to understand factors contributing to the promotion of general health and well-being and to the prevention of illness.

A Bachelor of Science in Health Science is appropriate for students preparing to become health professionals or desiring to work in environmental protection agencies, private businesses or industrial hygiene and safety. The program also is designed to provide a career ladder opportunity for persons currently engaged in health and environmental occupations or preparing for graduate work in public health, social or natural sciences.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction and a social outlook, while providing an appropriate grounding in the natural sciences. In their senior year, students spend time in community agencies, such as health departments, hospitals, industrial plants, environmental improvement agencies and consumer affairs offices, thus combining theory and practice.

Pre-professional students of medicine, dentistry, veterinary medicine or other science-related fields seeking a major in health science should refer to Page 77 of this bulletin and consult with a department advisor.

Students interested in fields such as health or environmental law, clinical chemistry, business, health physics, or any other academic discipline should complete the minimum requirements of the major and select appropriate electives in consultation with a department advisor.

Requirements for the Bachelor's Degree

Requirements for the major: A total of 198 quarter units is required for the Bachelor of Science degree including Biology 100 or 202, 220 and 222; Mathematics 350; Chemistry 205, 206, 207 or 215, 216, 206 or 215, 216, 225; Physics 100, or 121 and 225, or 221 and 225; Health Science 120, 352, 355, 356, 366, 371, 451, 470, 491, 492A, 492B and 15 units of health science electives.

The requirements for the major are those for health science generalist. There are a number of areas of advisement within the major. Students planning careers in environmental health and occupational health, health education, industrial hygiene or health administration and planning must read the following statements carefully.

The environmental and occupational health component of the curriculum is approved by the Sanitarian Registration Certification Advisory Committee of the California State Department of Health Services. Students who wish to obtain the Bachelor of Science in Health Science and be eligible for admittance to the state sanitarian registration examination as certified by the environmental health coordinator of the Department of Health Science and Human Ecology must complete the requirements of the major, and include within the major and electives the following courses: Health Science 120, 352, 353, 355, 356, 366, 371, 372, 401, 451, 458, 470, 491, 492A, 492B; Biology 100 or 202; Biology 220; Biology 222; Mathematics 110 or 120; Mathematics 350; Chemistry 215, 216, 225 (Chemistry 206 may substitute for Chemistry 225 upon approval of the environmental health coordinator); Physics 121, 122 (or 221, 222) and 225, 226.

Students interested in community health education should complete: Biology 100 or 202; Biology 220 and 222; Chemistry 205-206-207 or 215-216-206 or 215-216-225; Mathematics 350; Physics 100 or 121-225 or 221-225; Health Science 120, 301, 310 (or 435 or 440), 330 (or 338), 336, 352, 355, 356, 358, 361, 366, 371, 451, 470, 491, 492A, 492B.

Students interested in the area of industrial hygiene should complete: Biology 100 or 202; Biology 220 and 222; Chemistry 215, 216 and 206 or 225; Mathematics 110 or 120; Mathematics 350; Physics 121-122 or 221-222; Physics 225-226; Health Science 120, 352, 353, 355, 356, 366, 371, 381, 410, 425, 451, 470, 476, 491, 492A, 492B.

Students preparing for entry-level careers in health administration/planning or for graduate work in this area must be certified by the department as having completed: Computer Science 125, Economics 200 or 202; Administration 301, 306; Health Science 401, 415, and 422 (which may be substituted for Physics 100 or 121, 225 or 221, 225; Biology 100 or 202, and Biology 220; Chemistry 205, 206, 207 or 215, 216, 206 or 215, 216, 225). For their 15 units of health science electives, students in the health administration/planning area of advisement take Health Science 424, 427 and 525. Additionally, they will take Health Science 598. Upon approval of the advisor, Biology 220 may substitute for Biology 222.

An illustrated table of the curriculum requirements in all areas of advisement—health science generalist, industrial hygiene, community health education, health administration/planning and environmental health and safety—can be obtained by contacting the Department of Health Science and Human Ecology.

Requirements for a minor in health science: Health Science 120, 352, 451 and 15 units of upper-division health science courses selected in consultation with an advisor.

Departmental Honors: A graduating senior will be awarded departmental honors in health science after meeting the following requirements: at least a 3.5 average in all courses required for the major taken at California State College, San Bernardino; at least a 3.0 average overall; and an A— or better in Health Science 595 (at least 5 units).

Certificate Programs

The Department of Health Science and Human Ecology offers certificate programs in community mental health, health services administration and planning, and occupational safety and health. Additionally, the department participates in the interdisciplinary certificate in applied gerontology. Details concerning these programs are found beginning on Page 91. Furthermore, the department offers a series of two courses, Health Science 374 and 474 in audiometry which lead to a certificate of registration as a school audiometrist issued by the California State Department of Health Services. Further information is available from the department office.

120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

Nature and function of health in society through study of the fundamental concepts of living systems and their implication on the processes of health and illness in the human organism. Major health problems are analyzed to contribute to the student's understanding of his or her role as an individual and as a member of the community. Lecture and three hours of laboratory. (5 units)

200. MEDICAL TERMINOLOGY

Study of prefixes, roots and suffixes commonly encountered in medicine, leading to an ability to define unfamiliar words. Also included are common medical abbreviations and symbols. (2½ units)

300. THE HISTORY OF MEDICINE AND PUBLIC HEALTH

Historical factors involved in the development of human understanding of the disease processes and concepts, including a consideration of disease in a historical context. Medical, public health institutions and the contributions of early health workers are examined. (5 units)

301. PRINCIPLES OF HEALTH EDUCATION FOR HEALTH EDUCATORS

Foundations of the health education process. Role of a health educator in school, community, work and hospital settings, as well as a consultant in health promotion activities. Course does not fulfill the state health education requirement. *Prerequisite: Health Science 120 or consent of instructor.* (5 units)

310. HEALTH AND HUMAN SEXUALITY

Relationship between health and human sexuality with a theme of prevention of disease, disorder, and dysfunction through education. *Prerequisite: Health Science 120 or consent of instructor.* (5 units)

330. SCHOOL AND COLLEGE HEALTH PROGRAMS

Philosophical framework, organization, administration and legal aspects of school health with particular attention to the roles of the teacher and the school nurse. Factors contributing to a healthful and safe school environment and their interrelationship to health services and instruction. This course conforms with the State Framework for Education in the Health Sciences. *Prerequisite: Health Science 120.* (5 units)

336. DRUG AND ALCOHOL USE AND ABUSE

Analysis of factors influencing human use or abuse of drugs, alcohol and other substances and their effects on the health and well-being of the individual, family and society. This course conforms with the State Framework for Education in the Health Sciences. (2½ units)

338. TOPICS IN HEALTH PROMOTION PROCESSES

Introduction to the educational philosophy, methods and dynamics of health promotion and change for both individuals and groups in a variety of settings. Course will emphasize demonstration/practice format. Open only to health science majors. *Prerequisite: Health Science 301.* (5 units)

352. ENVIRONMENTAL HEALTH I

Relationship of the physical, chemical and biological environments to man. Methods of assessment, evaluation and control of environmental aspects related to medicine and public health. Principles of public health engineering, environmental planning and preparation of environmental impact studies. *Prerequisite: completion of lower-division required core or consent of instructor.* (5 units)

353. ENVIRONMENTAL HEALTH II

Present environmental and occupational health standards. Methods of testing and surveying residential, recreational and work environments. Laboratory and field experience in measuring the quality of air, water and food. Measurement and prevention of noise pollution and occupational health hazards. Lecture and three hours of laboratory. *Prerequisite: Health Science 352 or consent of instructor.* (5 units)

355. HEALTH, CONSUMER AND ENVIRONMENTAL LAW

Health laws and regulations, basis for their enactment and impact on facilities and programs, e.g. hospitals, health planning. Impact of environmental law on public health and mechanisms involved in protecting health consumers. Legal basis of the health care system and related aspects. (5 units)

356. HOUSING AND INSTITUTIONS

Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic and ethnic factors and their influence on health. (2½ units)

358. FOODS, NUTRITION AND HEALTH

Usage of foods and the nutritional status of man as an indicator of prevailing social and ecological factors; principles of nutrition applied to public health; contemporary food trends such as health foods; diverse effects of malnutrition and hunger on the individual and society. (5 units)

361. PRINCIPLES OF ACCIDENT PREVENTION

Ecological and medical aspects of accident prevention in residential, work, educational, medical and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2½ units)

362. PRINCIPLES OF NUTRITION

Study of carbohydrates, fats, proteins, vitamins and minerals, their metabolic interrelationship and their role in normal human nutrition. Methods of assessing nutritional requirements during different stages of the life cycle. *Prerequisites: Chemistry 205-206-207 or consent of instructor.* (5 units)

366. OCCUPATIONAL HEALTH AND THE WORK ENVIRONMENT

Identification, evaluation and control of hazards prevailing in the work environment. Factors affecting man in his working environment. Safety and health legislation. Field trips to selected industries. (2½ units)

370. DIET AND DISEASE

Role of dietary modifications in prevention and treatment of pathological conditions in man. *Prerequisite: Health Science 351 or 362 or equivalent.* (2½ units)

371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES

Consideration and comparison of traditional and current programs in official and voluntary health agencies. (5 units)

372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL IMPACT REPORTING

Principles and procedures of environmental health administration, emphasizing the role of the government and the citizen. Review of federal, state and local legislation and guidelines essential in preparing an environmental impact report. (5 units)

374. BASIC AUDIOMETRY AND HEARING PROBLEMS

Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing and pure-tone audiometry. First course in a two-course series (374, 474) leading to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. (5 units)

381. OCCUPATIONAL SAFETY

Principles of industrial safety, including general principles; accident control; industrial, mechanical, electrical, chemical and flammability hazards; fire and explosion protection; accident investigation; industrial safety inspections; record keeping; safety training and emergency planning; methods of industrial safety management as a unifying theme. (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

401. LAND USE: HEALTH ASPECTS

Health considerations and their impact on land-use patterns; health planning and environmental health aspects of land use with reference to environmental impact reports; land-use regulatory mechanisms relating to health. (5 units)

404. WOMEN'S HEALTH ISSUES

Discussion of the physical, mental/emotional and related aspects of health issues for women. (2½ units)

410. TOXICOLOGY

Principles of chemical toxicity and relationships to public health, including general principles, intoxication and disease, dose response tests, mechanisms of action and principles of antidotal therapy. Specific toxicologic studies as related to various food, drug, consumer, industrial and environmental problems. *Prerequisite: college biology or chemistry course, or consent of instructor.* (2½ units)

415. MEDICAL CARE ORGANIZATIONS

Analysis of the organization of health and medical care services, resources, facilities, financial aspects and other related topics. *Prerequisite: Health Science 371 or consent of instructor.* (5 units)

421. COMMUNITY MENTAL HEALTH

Mental health care delivery system with emphasis on a community approach to prevailing problems and issues. Methods of evaluating community and school mental health education programs; survey of available resources. (5 units)

422. HEALTH PLANNING

Health planning systems and procedures. *Prerequisite: Health Science 371 or consent of instructor.* (5 units)

423. HEALTH ASPECTS OF AGING

Issues and problems affecting the health status of the aged. Medical aspects of patients in long-term care facilities. (5 units)

424. HEALTH FACILITIES PLANNING

Activities in health care facilities planning, for example, architectural, engineering, contractual, environmental and other regulatory aspects. Facility planning processes, environmental forces, administrative coordination and historical development. (5 units)

425. HEARING CONSERVATION AND NOISE MEASUREMENT

Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2½ units)

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427. HOSPITAL ADMINISTRATION

Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. *Prerequisites: Health Science 371 and Administration 301 or consent of instructor.* (5 units)

430. FOOD-BORNE ILLNESSES AND THEIR PREVENTION

Food-borne illnesses and food poisoning of microbial and chemical origins, causation and environmental control measures; proper environmental control measures; and proper environmental health conditions involved in storage, transportation and service of foods in order to minimize health dangers. *Prerequisite: Health Science 352.* (5 units)

435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS

Health needs and problems of the school-age child; concepts of appraisal, services and healthful environment. This course conforms with the State Framework for Education in the Health Sciences. (5 units)

440. FAMILY HEALTH

Health aspects of the home and family, including qualifications for marriage, prenatal care, pregnancy, infant and maternal mortality, children's disease, home accidents, health plans for the family and health problems associated with old age. This course conforms with the State Framework for Education in the Health Sciences. (2½ units)

451. PRINCIPLES OF EPIDEMIOLOGY

Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach. (5 units)

452. SPECIAL TOPICS IN HEALTH SCIENCE AND HUMAN ECOLOGY

Examination of selected topics of current interest in health science. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (5 units)

455. ORGANIZATION AND MANAGEMENT OF LONG-TERM CARE FACILITIES

Examination of the professional administrative role and managerial concepts in long-term facilities, including nursing homes. *Prerequisites: Health Science 371 and Administration 301 or consent of instructor.* (5 units)

458. VECTOR CONTROL: FACTORS INFLUENCING ENVIRONMENT AND HEALTH

Identification and control of arthropods and other vectors of disease. Use of natural methods of control and chemical pesticides and their impact on environmental quality and health. Students enrolling in this course should possess some knowledge of biology and chemistry. (5 units)

460. STRATEGIC PLANNING AND MARKETING IN THE HEALTH CARE SYSTEM

Strategy-oriented management planning process, basic approaches and methodologies employed in strategic planning and health care marketing; economic and political forces which give form and shape to the health care marketplace. (5 units)

461. FOOD SYSTEMS AND MEAL MANAGEMENT

Factors involved in management of foods including purchase, meal selection, preparation, service, management of time, money and energy in meal preparation. (5 units)

470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION

Factors influencing the community's response to public health programs and individual's health behavior. Analysis of community health problems, the process of decision-making and health education activities of governmental and non-governmental organizations. (5 units)

474. ADVANCED AUDIOMETRY

Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry. Second course in a two-course series (374, 474) leading to the certificate of registration as school audiometrist, granted by the California Department of Health Services upon successful completion. *Prerequisite: Health Science 374 or 425 or equivalent.* (5 units)

476. INDUSTRIAL HYGIENE

Toxic chemicals in the industrial environment, their influence on human health and their relationship to occupational medicine and the administration of industrial hygiene programs. *Prerequisites: Health Science 366 and a basic chemistry course, or consent of instructor.* (5 units)

491. PRE-FIELD STUDY PRACTICUM

Preparatory work for field assignments through classroom discussion, agency contacts and experience. (5 units)

492. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH

Individual and team field studies and research in agencies with activities relevant to career goals and interests. *Prerequisite: Health Science 491 or consent of instructor.*

A. (5 units)

B. (5 units)

493. INTERNSHIP IN DIETETICS

Full-time clinical/agency internship taken in the senior year of course work. Courses A, B and C together total 1200 hours.

A. (10 units)

B. (10 units)

C. (10 units)

525. HEALTH DATA ANALYSIS AND DEMOGRAPHY

Introduction to analysis of health data using statistical procedures, development of skills for determining analytical techniques and procedures for interpretation and presentation of resultant data; examination of sources and evaluation of demographic data and relationships to such topics as fertility, morbidity, mortality, population projection, life tables, migration. *Prerequisites: Health Science 451 and Mathematics 350 or consent of instructor.* (5 units)

595. INDEPENDENT STUDY

Research in special topics including library studies and/or laboratory work under the direction of a faculty member. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

598. RESEARCH METHODOLOGY IN HEALTH SCIENCE

Research methods and application to contemporary health and environmental problems. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. *Prerequisite: Mathematics 350 or consent of instructor.* (5 units)

HISTORY

Department of History
Administration Building, Room 130
887-7239

History has been called the “extension of memory” which enables one to utilize past experiences. The study of history nurtures and refines a broad spectrum of skills which make not only for good historians and teachers, but for good workers in many fields where men and women are sought who can read critically, analyze and write. In fact, while teaching and research have traditionally been the avenues history majors have followed, a multitude of career opportunities has always existed for those who like history but do not wish to become teachers. The skills history majors get in thinking, research, problem defining and solving, speaking and writing—in conjunction with skills acquired from other selected courses—ideally suit them for positions in the business world and with governmental agencies.

The History Department has developed a major around a core of five courses which present a broad survey of American and European history and an introduction to the nature of historical study. To meet the remainder of the requirements for the major, the student may choose from a wide spectrum of courses.

Currently, the department consists of faculty specializing in the areas of American, European and Latin American history. Majors are also offered optional programs emphasizing Black or Mexican-American studies.

Requirements for the Bachelor's Degree

Requirements for the major: 50 units in history, including History 200, 201, 300, 301 (or their equivalents as described below) and 490, and at least 25 units of other upper-division course work in history. With the approval of the departmental advisor, up to 10 units of upper-division course work in related fields may be counted toward the upper-division course requirement in history. Students who are interested in Latin American or European history are encouraged to take a complete sequence of courses in the appropriate language.

Acceptable equivalents to the required courses in the major are as follows. In lieu of History 200, any two of the following: History 350, 351, and 354. In lieu of History 201, any two of the following: History 356, 357, and 359. In lieu of History 300, both History 402 and 403. Students who complete both Social Sciences 142 and 144 will be allowed to complete European history course requirements either by taking History 300 and 301 or by taking two of the following: History 402, 403, 408, 500 and 535.

Requirements for a minor in history: 30 units, at least 20 of which must be on the upper-division level, to be selected in consultation with a history advisor.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining 25 units shall be selected by the student and advisor from the appropriate ethnic studies concentration; 15 of these units must be in history. Courses specified will be listed as an option contract to be filed with the ethnic studies coordinator.

Departmental Honors: will be awarded upon graduation to students majoring in history who have earned a 3.5 grade-point average in all history courses attempted, completed at least half of all work in history at this College and been recommended for departmental honors by the history faculty.

Master of Arts

The College offers a Master of Arts in Education, with an option in history, for secondary teachers. Details on this graduate program may be secured from the Department of History or the School of Education.

200. UNITED STATES HISTORY TO 1877

Survey of the history of the United States from the colonial beginnings to 1877. This course meets the state code requirements in the U. S. Constitution and U. S. history. (5 units)

201. UNITED STATES HISTORY, 1877 TO THE PRESENT

Survey of the history of the United States from 1877 to the present. This course meets the state code requirement in U. S. history. (5 units)

300. EARLY MODERN EUROPE, THE RENAISSANCE TO 1815

Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars. (5 units)

301. MODERN EUROPE, 1815 TO THE PRESENT

Institutions, culture, and political development of Europe from the Congress of Vienna to the present. (5 units)

322. THE CLASSICAL WORLD

Survey of major developments in Western civilization from the rise of Greece to the fall of Rome. (5 units)

325. THE AMERICAN MILITARY EXPERIENCE

American military development from the Civil War to the present day.

A. 1860–1918 (2 ½ units)

B. 1919–1942 (2 ½ units)

C. 1942–Present (2 ½ units)

331. BLACK HISTORY I: THE AFRICAN EXPERIENCE

Origin of sub-Saharan cultures and development of African civilizations through the 18th century; special emphasis on West Africa and the region's relationship to Black people of North America. (5 units)

334. BLACK HISTORY II: THE AMERICAN EXPERIENCE

Black people in America from the 17th century to the present day. (5 units)

350. THE AMERICAN COLONIES 1607–1783

The thirteen colonies from European origins to the attainment of independence. (5 units)

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351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783–1840

Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. (5 units)

354. CIVIL WAR AND RECONSTRUCTION

Background and causes of the Civil War and the problems of Reconstruction. (5 units)

356. THE UNITED STATES, 1877–1917

Transformation of the nation between the end of Reconstruction and entrance into World War I. (5 units)

357. THE UNITED STATES, 1917–1945

Principal developments in American life from World War I to the end of World War II. (5 units)

359. THE UNITED STATES SINCE 1945

Major changes in the United States since the end of World War II. (5 units)

370. HISTORY OF CALIFORNIA

Political, economic, social and cultural development of California from Spanish times to the present.

A. California to 1890. (2½ units)

B. California 1890–Present. This segment of the course will meet the state code requirement in state and local government. (2½ units)

380. HISTORY OF WORLD RELIGIONS

Historical development of Judaism, Hinduism, Buddhism, Christianity and Islam. (5 units)

382. HISTORY OF THE MIDDLE EAST

History of the Middle East from the time of Muhammad the Prophet to the modern day. (5 units)

390. HISTORY OF MEXICO

Survey of Mexican history from early Indo-American civilizations to the present. (5 units)

391. CHICANO HISTORY

Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. (5 units)

395. TOPICS IN HISTORY

Examination of topics of interest in history. May be repeated for credit as topics change. (5 units)

396. TOPICS IN HISTORY

Examination of topics of interest in history. May be repeated for credit as topics change. (2½ units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for community service project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: a project proposal must be approved by the department in advance of enrollment.* (Credit to be arranged: 1 or 2 units)

402. RENAISSANCE AND REFORMATION

Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. (5 units)

403. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT

The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. (5 units)

408. THE DEVELOPMENT OF 20th CENTURY EUROPE, 1890–1945

Europe from the turn of the century period to the end of World War II. (5 units)

421. ECONOMIC HISTORY OF THE UNITED STATES

Economic history of the United States from the founding of the colonies to the present. (Also offered as Economics 421. Students may not receive credit for both.) (5 units)

469. COLONIAL LATIN AMERICA

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. (5 units)

470. MODERN LATIN AMERICA

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. (5 units)

490. THE STUDY OF HISTORY

Introduction to the nature of history through a consideration of the problems of historical knowledge and of the works of major historians of the past. (5 units)

500. TUDOR AND STUART ENGLAND

Principal political, social, economic and religious developments of England from 1485 to 1688. (5 units)

513. WOMEN IN U.S. HISTORY

History of women in the United States from colonial times to the present. Special emphasis on demographic changes, labor, the family, and ethnic and class distinctions among women. (5 units)

535. STUDIES IN EUROPEAN NATIONAL HISTORY

Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. (5 units)

540. CONSTITUTIONAL HISTORY OF THE UNITED STATES

American constitutional development from English and European origins to the present day. This course meets the state code requirement in U. S. history and U. S. Constitution. *Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor.* (5 units)

555. INDEPENDENT STUDY

Special topics in historical research. A total of five units in History 555 may be applied toward the major and 10 units in History 555 may be applied toward graduation. *Prerequisites: A minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (5 units)

556. FOREIGN RELATIONS OF THE UNITED STATES

Survey of American foreign policy with special emphasis on America's rise to world power in the 20th century. (5 units)

560. HISTORY OF THE AMERICAN WEST

Survey of the western expansion of the American nation. (5 units)

565. ETHNIC MINORITIES IN AMERICAN HISTORY

Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society. (5 units)

566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT

A comparative approach to the historical and contemporary experiences of Chicanos, Indians, Asians and other ethnic minorities in the Southwestern/Western United States. (5 units)

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575. INTERNSHIP IN HISTORY

Supervised work and study in work situations involving historical skills. May be repeated once for credit. *Prerequisites: major in history; one introductory statistics course; Administration 220, 301 and 306; or consent of the department.* (5 units)

589. REVOLUTIONS IN HISTORY

Nature and causes of revolutions from an historical as well as a broad social science perspective; both revolutions and revolutionists from different parts of the world are examined. (5 units)

603. SEMINAR IN MODERN MILITARY HISTORY

Analyses of selected military operations since World War II. May be repeated once for credit, as topics change, with consent of student's advisor. (5 units)

HUMAN DEVELOPMENT

Department of Psychology

Physical Sciences Building, Room 219

887-7226

The Human Development major is an interdisciplinary program of study of the processes and changes that characterize human development. Course offerings are drawn primarily from the departments of psychology, sociology, anthropology and biology with electives available from other departments, including education, and from the field of ethnic studies. Consistent with the interdisciplinary field of life-span development, the major provides the important advantage of promoting a holistic approach to development that no single discipline can offer.

Students selecting the B.A. in Human Development, with the study of people as its major theme, typically choose careers related to working with people when they graduate. The major prepares graduates to work in counseling and guidance, personnel, teaching, probation or in health delivery settings. The program also is designed to provide students with the option of selecting a concentration within the major—either in child development or in aging. Students selecting the concentration in aging may also earn a certificate in Applied Gerontology (see Page 97 or a human development advisor for details). The child development concentration within the major is designed specifically to prepare students for occupations or professions that call for child development specialists, including, for example, infant care, preschool management, playground and recreation supervision, and other positions involving work with young children and their families. The aging concentration is designed to prepare graduates for careers related to servicing the needs of adults or the elderly, as in positions in community agencies. The program also provides academic preparation for graduate-level training in various fields relating to human development, such as in psychology, social work, law, education and anthropology.

Requirements for the Bachelor's Degree

Requirements for the major:

Lower-division core:

BIOLOGY 100. TOPICS IN BIOLOGY

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

PSYCHOLOGY 201. DEVELOPMENTAL PSYCHOLOGY

SOCIOLOGY 100. THE STUDY OF SOCIETY

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Upper-division core:

ANTHROPOLOGY 331. ANTHROPOLOGY OF HUMAN DEVELOPMENT

PSYCHOLOGY 358. COGNITIVE DEVELOPMENT

PSYCHOLOGY 384. PERSONALITY AND SOCIAL DEVELOPMENT

SOCIOLOGY 339. SOCIALIZATION

BIOLOGY 315. INTRODUCTION TO HUMAN EMBRYOLOGY

or

BIOLOGY 316. GENETICS OF MAN

Practicum:

PSYCHOLOGY 575. INTERNSHIP IN PSYCHOLOGY

or

SOCIOLOGY 575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK

The internship setting selected must correspond to the student's course work and emphasis within the human development program and be approved, in advance, by a human development advisor. This internship is intended to provide a senior-level, capstone experience which is highly structured and carefully designed to integrate the theoretical knowledge gained in the core courses and concentrated electives with the practical, career objectives of each student to focus on the common concern for human development throughout the life-span. In order to blend this experience and educational background, the internship course will require introductory group sessions to prepare the students for the work experience; a daily log or journal requiring the student to analyze, reflect and integrate the experiential learning; a paper summing up the previous course work and applying this broad store of knowledge to a practical situation; and regular meetings with other interns and faculty to assure a sharing of common experiences and a deepening of individual understanding of how particular problems in the field relate to the whole.

Areas of Concentration:

The human development program provides for broad interdisciplinary study of development over the life-span. Human development majors may specialize within the program by choosing a concentration in either child development or in aging. Students selecting one of these optional concentrations will be required to complete the three courses (15 units) indicated below for the respective concentrations. Students not choosing a concentration will select 25 units from the list of approved electives. All electives should be chosen in consultation with a human development advisor.

Child Development Concentration (15 units)

ANTHROPOLOGY 330. CROSS-CULTURAL CHILD REARING PRACTICES

PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY

PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD

Note: Students selecting the child development concentration must select Biology 315 for their upper-division core requirement in biology.

Aging Concentration (15 units)

HEALTH SCIENCE 423. HEALTH ASPECTS OF AGING

PSYCHOLOGY 329. PSYCHOLOGY OF ADULTHOOD AND AGING

SOCIOLOGY 330. SOCIAL GERONTOLOGY

Approved electives:

Students selecting a concentration must take 10 units of approved electives, at least five of which must be upper-division. Students not selecting a concentration must take 25 units of approved electives, at least 20 units of which must be upper-division. All approved electives should be chosen in consultation with a human development advisor.

ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

ANTHROPOLOGY 102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY

*** ANTHROPOLOGY 330. CROSS-CULTURAL CHILD REARING PRACTICES**

BIOLOGY 314. BIOLOGY OF HUMAN SEXUALITY

*** BIOLOGY 315. INTRODUCTION TO HUMAN EMBRYOLOGY**

*** BIOLOGY 316. GENETICS OF MAN**

BIOLOGY 321. EVOLUTION

EDUCATION 330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

EDUCATION 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN

ENGLISH 320. CHILDREN'S LITERATURE

*** HEALTH SCIENCE 423. HEALTH ASPECTS OF AGING**

HEALTH SCIENCE 435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS

HEALTH SCIENCE 440. FAMILY HEALTH

POLITICAL SCIENCE 450. POLITICAL SOCIALIZATION

PSYCHOLOGY 315. HELPING PROCESSES

*** PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY**

*** PSYCHOLOGY 329. ADULTHOOD AND AGING**

* These courses may be used as electives if they have not already been used in the core or concentration.

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PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

PSYCHOLOGY 390. ABNORMAL PSYCHOLOGY

*** PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD**

PSYCHOLOGY 431. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL

*** SOCIOLOGY 330. SOCIAL GERONTOLOGY**

SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY

SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 344. SEX ROLES: THE LIFE CYCLE

SOCIOLOGY 352. THE JUVENILE OFFENDER

SOCIOLOGY 354. DEVIANT BEHAVIOR

SOCIOLOGY 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT

SOCIOLOGY 530. ADVANCED SEMINAR IN SOCIOLOGY OF AGING

Students may select one of the following statistics courses for lower-division elective credit for the major: Psychology 210 or Social Sciences 215.

Occasionally topic and seminar courses are offered in various disciplines throughout the college that would be relevant for human development majors. Students interested in receiving elective credit toward the major for these courses should contact the coordinator of the human development program.

*** These courses may be used as electives if they have not already been used in the core or concentration.**

HUMANITIES

School of Humanities

Pfau Library Building, Room 239

887-7441 or

Creative Arts Building, Room 180

887-7691

Humanities is a multidisciplinary major encompassing the study of cultural concepts, principles and values from the beginning of history to the present. An awareness of the past, an understanding of major influences and a perception of their relationships give meaning to the present, while the breadth of the discipline provides analytical skills needed in today's complex world as well as offering pragmatic benefits in business and industry.

Requirements for the Bachelor's Degree

Requirements for the major:

Core courses:

HUMANITIES 300. INTRODUCTION TO HUMANITIES

HUMANITIES 305. WORLD MYTHOLOGY

HUMANITIES 310. HUMANITIES IN THE MODERN WORLD

HUMANITIES 315. HUMANISTIC STUDIES IN CONTEXT

HUMANITIES 400. HUMANITIES SEMINAR

Foreign language proficiency:

15 units of foreign language or equivalent proficiency

ARTS: 20 units selected from the following with at least five units chosen from each department:

ART

ART 306. GREEK AND ROMAN ART

ART 308. MEDIEVAL ART

ART 311. ART OF THE UNITED STATES TO THE END OF THE NINETEENTH CENTURY

ART 321. RENAISSANCE ART

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- ART 327. BAROQUE AND ROCOCO ART
- ART 328. MEXICAN ART
- ART 413. MODERN ART OF THE UNITED STATES
- ART 423. NINETEENTH CENTURY EUROPEAN ART
- ART 424. MODERN EUROPEAN ART

MUSIC

- MUSIC 350. MUSIC OF OTHER CULTURES
- MUSIC 351. MEXICAN AND CHICANO MUSIC
- MUSIC 352. AFRO-AMERICAN MUSIC
- MUSIC 360. MUSIC IN THE UNITED STATES
- MUSIC 400. STUDIES IN COMPOSERS
And/or
With appropriate background in theory:
- MUSIC 304. HISTORY OF MUSIC I
- MUSIC 305. HISTORY OF MUSIC II
- MUSIC 306. HISTORY OF MUSIC III

THEATRE ARTS

- THEATRE ARTS 302. ANALYSIS OF DRAMA *
- THEATRE ARTS 445. THE CAMERA EYE
- THEATRE ARTS 450. CLASSICAL DRAMA *
- THEATRE ARTS 451. MYSTERY TO MELODRAMA
- THEATRE ARTS 455. MODERN DRAMA I
- THEATRE ARTS 456. MODERN DRAMA II
- THEATRE ARTS 461. AMERICAN DRAMA
- THEATRE ARTS 475. SHAKESPEARE I *
- THEATRE ARTS 476. SHAKESPEARE II*

LETTERS: 20 units selected from the following with at least five units chosen from each department:

ENGLISH

- ENGLISH 301. ANALYSIS OF POETRY

* This course may be taken for either art or letters credit. Students may not receive credit for both.

ENGLISH 302. ANALYSIS OF DRAMA *

ENGLISH 303. ANALYSIS OF PROSE FICTION

ENGLISH 315. STUDIES IN LITERARY GENRES

ENGLISH 333. MYTH AND EPIC

ENGLISH 385. INTRODUCTION TO LITERARY CRITICISM

ENGLISH 442. MODERN POETRY

ENGLISH 446. MODERN FICTION

ENGLISH 450. CLASSICAL DRAMA *

ENGLISH 475. SHAKESPEARE I *

ENGLISH 476. SHAKESPEARE II *

FOREIGN LANGUAGE

FOREIGN LANGUAGES 450. LITERATURE IN TRANSLATION: FRENCH and/or GERMAN

SPANISH 450. MEXICAN LITERATURE IN TRANSLATION
and/or
with appropriate language facility:

FRENCH 311. MASTERPIECES OF FRENCH LITERATURE I

FRENCH 312. MASTERPIECES OF FRENCH LITERATURE II

FRENCH 313. MASTERPIECES OF FRENCH LITERATURE III

FRENCH 314. MASTERPIECES OF FRENCH LITERATURE IV

GERMAN 308. READINGS IN GERMAN LITERATURE

GERMAN 311. INTRODUCTION TO GERMAN LITERATURE

SPANISH 400. MASTERPIECES IN SPANISH AND SPANISH AMERICAN LITERATURE

PHILOSOPHY

PHILOSOPHY 301. GREEK AND ROMAN PHILOSOPHY

PHILOSOPHY 305. MODERN PHILOSOPHY, 16TH-19TH CENTURY

PHILOSOPHY 307. CONTEMPORARY PHILOSOPHY

PHILOSOPHY 316. DISCOVERY AND METHOD

PHILOSOPHY 330. PHILOSOPHY OF LANGUAGE

*This course may be taken for either art or letters credit. Students may not receive credit for both.

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PHILOSOPHY 340. PHILOSOPHY OF MAN

PHILOSOPHY 350. ETHICS

PHILOSOPHY 370. PHILOSOPHY OF ART AND CRITICISM: AESTHETICS

77. READING ENHANCEMENT FOR SPECIFIC SUBJECTS

Improvement in speed, vocabulary and comprehension of reading. Taught as an adjunct to specifically designated classes with emphasis on texts used in those classes. May be repeated as necessary. Units awarded for Humanities 77 are not applicable to a baccalaureate degree. Graded A,B,C/No Credit. (2 units)

99. READING ENHANCEMENT

Improvement in speed, vocabulary and comprehension of reading. Taught as a supplement to a variety of classes with an emphasis on texts used in existing classes. May be repeated as necessary. Units awarded for Humanities 99 are not applicable to a baccalaureate degree. Graded A,B,C/No Credit. (2 units)

300. INTRODUCTION TO HUMANITIES

Introduction to the ways individuals in the arts and letters approach their subject matter. (5 units)

305. WORLD MYTHOLOGY

Mythological themes (for example, creation, death) and their interpretations by various cultures. (5 units)

310. HUMANITIES IN THE MODERN WORLD

Nature of institutions and their relation to human values and the quality of life as exemplified by particular contemporary issues. (5 units)

315. HUMANISTIC STUDIES IN CONTEXT

Major works or figures (for example, the Parthenon, Dante) as representatives of their contemporary world and as influences on subsequent ages. May be repeated for credit as topics change. No more than 10 units are applicable to the humanities major. (5 units)

319. MYTH, METAPHOR AND SYMBOL

Nature and function of myth and mythmaking; ways in which figurative language is used in different disciplines to create models for understanding the world and human experience. (5 units)

330. ARTS AND IDEAS

An interdisciplinary exploration of several ways in which different arts exhibit ideas and various ideas stimulate our understanding of and pleasure in the arts. (5 units)

350. LITERARY AND CULTURAL TRADITIONS OF WESTERN EUROPE

Major Western European aesthetic tendencies as seen in selected literary masterpieces and as reflected in art, architecture and music. (5 units)

353. POPULAR CULTURE

Significance and context of popular modes of art and entertainment focusing on selected periods, such as the rock generation. Course may be repeated as topics change; however, no more than five units of Humanities 353 may be used to satisfy general education requirements. (5 units)

360. CULTURES OF THE EAST

An interdisciplinary introduction to the cultural heritage of the nonwestern world as reflected in art, architecture, theatre, literature and music. (5 units)

400. HUMANITIES SEMINAR

A seminar considering the various ways (particularly through philosophy, literature and the arts) in which people deal with "human experience." *Prerequisite: senior standing or consent of instructor.* (5 units)

460. CULTURE STUDIES

Aspects of culture, language and civilization with emphasis upon major factors shaping national tradition. May be repeated for credit as topics change. (5 units)

495. EXPOSITORY WRITING FOR THE HUMANITIES

Writing related to the humanities including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495) may be taken for credit. Graded A,B,C/No Credit. *Prerequisites: English 101 and a minimum of 90 quarter (60 semester) units of college credit.* (5 units)

496. SELECTED TOPICS IN HUMANITIES

Seminar in special topics chosen from arts or humanities. May be repeated with change of topic. (5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF HUMANITIES

Integration of educational philosophy and pedagogical concepts with the specific teaching materials of disciplines in the humanities. This course may not be counted toward fulfilling requirements of courses in the majors below. *Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program.*

- A. Art (5 units)
- B. Foreign Languages (5 units)
- C. English (5 units)
- D. Music (5 units)
- E. Theatre Arts (5 units)
- F. Humanities (5 units)

600-level courses are open to postbaccalaureate and graduate students only.

695. DIRECTED GRADUATE STUDIES

Graduate-level independent study under the direct supervision of a faculty member approved by the committee on graduate education. (Credit to be arranged: 1 to 5 units)

699. THESIS

Preparation of M.A. thesis under the direction of a faculty member approved by the committee on graduate education. Maximum nine credits applicable toward the M.A., with a special major. *Prerequisite: advancement to candidacy.* (Credit to be arranged: 1 to 5 units)

HUMAN SERVICES

Department of Sociology
Administration Building, Room 183
887-7224

Human services is an interdisciplinary, career-oriented degree program drawing from sociology, psychology, ethnic studies and health science. It is particularly suited to the para-professional person whose work role is that of a generalist who must serve in a variety of work settings and deal with a variety of human needs. Consequently, courses have been selected and designed to meet minimum general occupational needs of human services personnel.

Requirements for the Bachelor's Degree

Requirements for the major: Health Science 120 and 371; Psychology 100, 201, 387, 390; Social Sciences 155; Sociology 100, 340, 354, 434 and Sociology 484 or Psychology 315; 15 additional units of upper-division course work (refer to Human Services Practice below); plus 10 units of internship/field study in either Psychology 575, Sociology 575 or Health Science 492A and 492B.

Honors in the Major: Students majoring in human services are eligible to receive honors in human services at graduation if the following conditions are met: (1) at least one-half of the course work required by the major is completed at this college, (2) at least a 3.5 GPA in the major, both at this college and overall, (3) an overall undergraduate GPA of 3.0 or better, and (4) completion of a senior project approved in advance by the program coordinator. Students interested in receiving this recognition must initiate the process by making a formal application with the Sociology Department secretary.

Introductory courses:

HEALTH SCIENCE 120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA

SOCIOLOGY 100. THE STUDY OF SOCIETY

Human Development and Behavior

PSYCHOLOGY 201. DEVELOPMENTAL PSYCHOLOGY

PSYCHOLOGY 390. ABNORMAL PSYCHOLOGY

SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY

SOCIOLOGY 354. DEVIANT BEHAVIOR

Delivery of Human Services

HEALTH SCIENCE 371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES

PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY

SOCIOLOGY 434. COMMUNITY ORGANIZATION

Human Services Practice

(15 units selected from at least two of the areas below)

1. HEALTH SCIENCE 340. DISEASES OF MAN

HEALTH SCIENCE 351. FOODS, NUTRITION AND HEALTH

**2. HEALTH SCIENCE 336. DRUG AND ALCOHOL USE AND ABUSE (2½ units) and
HEALTH SCIENCE 337. SPECIAL TOPICS IN DRUG AND ALCOHOL USE
(2½ units)**

PSYCHOLOGY 333. DRUGS AND BEHAVIOR

3. ANTHROPOLOGY 330. CROSS-CULTURAL CHILD-REARING PRACTICES

HEALTH SCIENCE 435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS

PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD

4. HEALTH SCIENCE 423. HEALTH ASPECTS OF AGING

PSYCHOLOGY 329. PSYCHOLOGY OF ADULTHOOD AND AGING

SOCIOLOGY 330. SOCIAL GERONTOLOGY

5. SOCIOLOGY 352. JUVENILE OFFENDER

SOCIOLOGY 358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

6. HEALTH SCIENCE 470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION

Methods

PSYCHOLOGY 315. HELPING PROCESSES

or

SOCIOLOGY 484. SOCIAL CASEWORK

Internship/Field Study

Ten units of internship/field study selected to correspond with course work chosen above, selected in consultation with an advisor. The internship must be in either Psychology 575, Sociology 575, or Health Science 492A and 492B.

INTERDISCIPLINARY STUDIES

The College offers a limited number of courses outside of its department and school structure.

Also offered as interdisciplinary studies are the certificate programs in international relations and bilingual/cross-cultural studies. See Pages 98 and 92.

101. WORDS AND IDEAS

A course combining English 101 and Philosophy 105. Students must complete I.S. 101A and I.S. 101B before credit can be granted for either. I.S. 101A must be taken before I.S. 101B. This course may be taken as an alternative to English 101 and Philosophy 105. *Prerequisite: satisfactory score on the English placement test, or completion of the test and at least a grade of C in English 100.* A. (5 units) B. (5 units)

386. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES

A version of the 10-unit I.S. 388 course that extends over two consecutive quarters. A final grade will be assigned only upon successful completion of both terms, as demonstrated through a comprehensive examination taken at the end of the second term. See Page 58 for comprehensive examination limitations. A. (5 units) B. (5 units)

387. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES

A version of the 15-unit I.S. 388 course that extends over two consecutive quarters. A final grade will be assigned only upon successful completion of both terms, as demonstrated through a comprehensive examination taken at the end of the second term. See Page 58 for comprehensive examination limitations. A. (7½ units) B. (7½ units)

388. THE ARTS AND SCIENCES AS HUMAN ACTIVITIES

Independent study of selected readings developed to meet the upper-division general education requirement and drawn from the natural sciences, social sciences and humanities. No class meetings; study guides available at the College bookstore outline entire quarter's work. Six-hour examination at end of term. See Page 58 for comprehensive examination limitations. (10 or 15 units)

460. ASPECTS OF CHICANO CULTURE

Cultural, political and social values of the Chicano as reflected in Chicano literature, art, music, teatro and other forms and their relationship to concurrent developments in Mexico. (5 units)

596. EXPOSITORY WRITING: HONORS

Advanced writing workshop for students who have already met the College upper-division writing requirement. Intensive class discussion of substantial independent writing projects. Course offers five units of upper-division general education credit which may apply to Category A but *not* to Category E. Graded A, B, C/No Credit. *Prerequisite: completion of upper-division writing requirement.* (5 units)

600-level courses are open to postbaccalaureate and graduate students only.

695. DIRECTED GRADUATE STUDIES

Graduate-level independent study for students in the program for the M.A. with a special major; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the committee on graduate education. (Credit to be arranged: 1 to 6 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the M.A. degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of the Associate Dean of Graduate Studies.* (0 units)

699. GRADUATE THESIS

Preparation of the thesis for the M.A. with a special major, under the direction of a faculty member from the student's committee and with approval of the Associate Dean of Graduate Studies. Maximum of 9 credits applicable toward the M.A. *Prerequisite: advancement to candidacy.* (Credit to be arranged: 1 to 9 units)

LIBERAL STUDIES

Liberal Studies Office

Pfau Library Building, Room 276

887-7483 or 887-7445

The B.A. in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests require a more broadly based liberal arts curriculum than is possible through existing disciplines. Although the program is open to all students, it should prove of particular value to those who plan to enter the elementary teaching field.

The liberal studies degree program has been approved by the Commission for Teacher Preparation and Licensing; students completing this major are granted a waiver of the examination requirement for the multiple subjects teaching credential.

Requirements for the Bachelor's Degree

Basic program *

English (including grammar, literature, composition and speech)

Mathematics and the physical and life sciences

Social sciences

Humanities and the fine arts (including foreign languages)

Field of concentration

A student electing to complete the B.A. in Liberal Studies is also required to meet the general education requirements. A careful selection of courses within the major, including electives, will enable the student to complete the general education requirements, as well as the major, without additional course work.

By an appropriate selection of course work in the basic program, the field of concentration and the free electives, the following objectives may be achieved:

1. Completion of a second major in certain fields.
2. Completion of the professional education requirements leading to a multiple subjects teaching credential.

Basic Program

The basic program for the B.A. in Liberal Studies is divided into four broad categories. Within each of these four, the course work is further subdivided into courses in required areas and elective courses.

* A 2.0 grade-point average in each area of the basic program is required.

English

Two courses in composition:

English 101

English 495

One course in literary analysis:

English 301 or 302 or 303

One course in language:

English 311

Electives (15 units):

Ten units must be upper-division. Selections are to be made from the course offerings of the Department of English; Communications 120, Theatre Arts 210 and Philosophy 105 are also acceptable.

Humanities

One course in the arts:

Art 200 or Theatre Arts 250 or Music 180

Two courses in letters:

English 110, 111 and 170; Foreign Language 450; French 101-102-103; German 101-102-103; Spanish 101-102-103, and 450; Philosophy 190

Humanities activity (2 units):

To be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 483, 484; English 372; Theatre Arts 320ABCD or E, 481; Music 205, 206, 220, 221, 222, 380 through 395, 531

Electives (17.5 units):

Ten units must be upper-division. Selections are to be made from the course offerings of the School of Humanities (excluding English).

Social Sciences

One course from the world cultures group:

Social Sciences 140, 142, 144, 165

One course from the American society group:

Social Sciences 146, 151, 155, 160; Political Science 203

Once course from the behavioral and social sciences group:

Anthropology 100, 102; Economics 104; Geography 100; Political Science 200; Psychology 100; Sociology 100

Electives (17 units):

Twelve and a half units must be upper-division. Selections are to be made from the course offerings of the School of Social and Behavioral Sciences.

Natural Sciences and Mathematics

One course in basic mathematics:

Mathematics 100 or 110 or 120 or 200

One course in applied mathematics:

Mathematics 301 or 350 or Computer Science 120

One course in life sciences:

Biology 100 or 202

Health Science 120

One course in physical sciences:

Chemistry 100; Earth Science 101; Geography 103; Natural Sciences 100; Physics 100

Electives (7.5 units): *

One course must be upper-division. Selections are to be made from the course offerings of the School of Natural Sciences (excluding nursing and physical education).

Field of Concentration

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement, to be selected in consultation with an advisor, must be from a single one of the disciplines below:

Art	Administration	Biology
Arts in the	Anthropology	Chemistry
Classroom	Child Development	Computer Science
English	Economics	Health Science
Foreign Literature	Geography	Mathematics
in Translation	History	Physical Education
French	Political Science	Physics
German	Psychology	
Music	Sociology	
Philosophy		
Spanish		
Spanish for Public Services		
Theatre Arts		

Bilingual/Cross-cultural Studies Emphasis

A multiple subjects credential candidate may pursue a bilingual/cross-cultural focus within the liberal arts major. The bilingual/cross-cultural focus requires a different basic program than the standard liberal studies program. The program is outlined below:

English

Two courses in composition:

English 101

English 495

One course in literary analysis:

English 301 or 302 or 303

One course in language:

English 311

Electives (15 units):

Ten units must be upper-division. Selections are to be made from the course offerings of the Department of English; Communications 120, Theatre Arts 210 and Philosophy 105 are also acceptable.

Humanities

Art 200 or Music 180 or Theatre Arts 250,

Spanish 101, 102, 103,

Spanish 301, or 415

* As one of these electives, those seeking a multiple-subjects teaching credential may meet the state-mandated requirement in health education by taking one of the following: Health Science 330, 336, 337, 426, 435 or 440.

One upper-division elective to be selected from Art 328 or 329, Foreign Language 450, Humanities 460, Music 351, Spanish 302, Spanish 440, Spanish 450

Two units of humanities activity to be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 483, 484; English 372; Theatre Arts 320ABCD or E, 481; Music 205, 206, 220, 221, 222, 380 through 395, 531

Social Sciences

One course from the world cultures group: Social Sciences 140, 142, 144, 165
One course from the American society group: Social Sciences 146, 151, 155, 160; Political Science 203

One course from the behavioral and social sciences group: Anthropology 100, 102; Economics 104; Geography 100; Political Science 200; Psychology 100; Sociology 100

Two courses to be chosen from: Anthropology 354, 460; History 390, 391, 565, 566; Political Science 351; Psychology 347; Sociology 342, 410, 442

One of the following: History 370A or History 370B

One upper-division elective from the School of Social and Behavioral Sciences that fulfills the upper-division general education requirement.

Physical and Life Sciences and Mathematics

One course in basic mathematics, to be chosen from:
Mathematics 100, 110, 120, 200

One course in applied mathematics, to be chosen from:
Mathematics 301, 350, Computer Science 120

One course in the life sciences:
Biology 100 or 202
Health Science 120

One course in the physical sciences:
Chemistry 100; Earth Science 101; Geography 103; Natural Sciences 100; Physics 100

One lower or upper-division elective from the course offerings of the School of Natural Sciences (excluding nursing and physical education).

One upper-division elective from the course offerings of the School of Natural Sciences that fulfills the upper-division general education requirement.

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement to be selected from the following:

†ANTHROPOLOGY 354. CULTURES OF MEXICO AND CENTRAL AMERICA

†ANTHROPOLOGY 460. LANGUAGE AND CULTURE

†ART 328. MEXICAN ART

†ART 329. CHICANO ART

EDUCATION 536. TEACHING THE CULTURALLY DIFFERENT

† These courses may be used as electives if they have not already been used for the basic program.

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†FOREIGN LANGUAGES 450. LITERATURE IN TRANSLATION: MEXICAN

†HISTORY 390. HISTORY OF MEXICO

†HISTORY 391. CHICANO HISTORY

†HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

†HISTORY 566. ETHNIC MINORITIES IN THE AMERICAN SOUTHWEST: PAST AND PRESENT

†HUMANITIES 460. CULTURE STUDIES: MEXICAN

INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

†MUSIC 351. MEXICAN AND CHICANO MUSIC

†POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

†PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

†SOCIOLOGY 342. THE CHICANO FAMILY

†SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SPANISH 202. GRAMMAR AND COMPOSITION

SPANISH 204. INTRODUCTION TO LITERARY TEXTS

†SPANISH 302. THEORY AND PRACTICE IN COMPOSITION

†SPANISH 440. MEXICAN LITERATURE

† These courses may be used as electives if they have not already been used for the basic program.

MATHEMATICS

Department of Mathematics
Biological Sciences Building, Room 111
887-7351

The role of mathematics in society is rapidly growing. New mathematical methods are making an ever wider range of problems amenable to quantitative treatment, thus stimulating new applications, especially in the social, behavioral, management and biological sciences. Computers, able to process formerly unmanageable masses of data and to perform prodigious computational chores, have freed mathematicians to attack problems arising in such diverse areas as industrial management, medical research, environmental studies, ecology, psychology and space exploration.

The mathematics program at California State College, San Bernardino prepares students for careers utilizing applied mathematics, such as oceanography, biostatistics, and computer design and analysis. The program also prepares students interested in teaching, and for others it provides the well-rounded background necessary for graduate work in mathematics and the social and physical sciences.

Requirements for the Bachelor's Degrees

Requirements for the bachelor of arts degree: 55 units in mathematics including Mathematics 200-201-202-203, 331, 335, 340, 550A, 570A and 10 units in upper-division electives, not to include Mathematics 301, 302, 350, 504 or Natural Sciences 499, chosen in consultation with the advisor. Computer Science 131 or 240 or equivalent is also required.

Requirements for the bachelor of science degree: Computer Science 131-132 or 240; Mathematics 200-201-202-203, 331, 335, 340, 550A, 560A, 570A and B, and five units of upper-division electives, not to include Mathematics 301, 302, 350, 504 or Natural Sciences 499, chosen in consultation with the advisor; 25 units in additional courses beyond the general education requirements from at most two disciplines in the natural sciences, chosen in consultation with the advisor.

The required core of the major programs (Mathematics 200-201-202-203, 331, 335, 340, 550A and 570A) is designed to provide a solid background for a student planning a career as either an applied mathematician or secondary mathematics teacher or planning to study mathematics on the graduate level.

Requirements for a minor in mathematics: Computer Science 131 or 240 and Mathematics 200-201-202, 331 and 335.

Departmental Honors: The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The sole criterion

will be the student's ability to do quality independent work in mathematics. One or more of the following types of activities will be required in order for a student to be considered: (1) completion of Mathematics 595 Independent Study, (2) completion of independent study assignments in regular upper-division mathematics courses, (3) challenge by examination of upper-division mathematics courses; and (4) extracurricular independent study projects. Mathematics 595 Independent Study will be offered on demand. Majors planning to enroll should request department consent and assignment of a project one term in advance of the term in which the course will be taken.

Certificate Program

The Department of Mathematics offers a certificate program in Teaching Basic Mathematics. Details concerning this program are found on Page 103.

70. FUNDAMENTAL ARITHMETIC

Fundamental topics in arithmetic, including a preview of algebra. Units awarded for Mathematics 70 are not applicable to a baccalaureate degree. Graded A,B,C/No Credit. (5 units)

80. FUNDAMENTAL ALGEBRA

Arithmetic operations, linear and quadratic equations, applications and introduction to graphing. Units awarded for Mathematics 80 are not applicable to a baccalaureate degree. Graded A, B, C/No Credit. (5 units)

81. ALGEBRA REVIEW

Accelerated review of the basic mathematical skills required for the entry-level mathematics (ELM) examination: arithmetic skills, polynomial expressions, linear equations and inequalities, rational expressions, integer exponents, square roots, quadratic equations, geometric measurement and graphing. Units awarded for Mathematics 81 are not applicable to the baccalaureate degree. Graded A, B, C/No Credit. (2½ units)

100. THE IDEAS OF MATHEMATICS

Topics include inductive and deductive reasoning, mathematical patterns, methods of counting, basic concepts of probability and statistics. *Prerequisite: satisfactory score on the entry-level mathematics examination* (5 units)

110. INTRODUCTION TO COLLEGE MATHEMATICS

Quadratic equations and inequalities, systems of equations, radicals and rational exponents, radical equations, functions and graphs, combinations of functions, arithmetic and geometric progressions, exponential and logarithmic functions, binomial theorem. *Prerequisite: satisfactory score on the entry-level mathematics examination.* (5 units)

120. PRE-CALCULUS MATHEMATICS

Translation, reflection and stretching of graphs; inverse functions and their graphs, trigonometry; introduction to complex numbers; topics in analytic geometry. *Prerequisites: plane geometry and two semesters of high school advanced algebra or their equivalent; and satisfactory score on the entry-level mathematics examination.* (5 units)

160. GEOMETRY IN TWO AND THREE DIMENSIONS

Geometric constructions and transformations, the axiomatic foundations of Euclidean and non-Euclidean geometries. (5 units)

190. BUSINESS CALCULUS

Introduction to differentiation and integration of functions of one variable, including algebraic, logarithmic and exponential functions, with business-related applications. *Prerequisite: Mathematics 110 with a grade of B or better, or Mathematics 120.* (5 units)

200. BASIC CONCEPTS OF CALCULUS

An introduction to differentiation and integration of functions in one variable, with applications. *Prerequisite: satisfactory score on the entry-level mathematics examination.* (5 units)

201. CALCULUS II

Calculus of transcendental functions, techniques of integration, indeterminate forms, improper integrals, Taylor polynomials, infinite sequences and series. *Prerequisites: Mathematics 200 with a grade of C or better and a trigonometry background such as provided in Mathematics 120 or consent of instructor.* (5 units)

202. CALCULUS III

Functions of two or more variables, polar coordinates, vectors, partial derivatives, directional derivatives, extrema, multiple integrals. *Prerequisite: Mathematics 201.* (5 units)

203. CALCULUS IV

Vector functions, complex numbers and functions, differential equations. *Prerequisite: Mathematics 201.* (5 units)

301. BASIC MATHEMATICS FOR EDUCATORS

Course designed to produce mastery in the presentation of fundamentals for those who are preparing to instruct others. May not be counted toward fulfilling requirements in the mathematics major. *Prerequisites: satisfactory score on the entry-level mathematics examination; and completion of the general education requirement in mathematics or equivalent preparation.* (5 units)

302. PROBLEM SOLVING IN MATHEMATICS

Use of induction, analogy, successive approximation and other heuristic techniques, illustrated by means of elementary and recreational problems. May not be counted toward fulfilling requirements in the mathematics major. (5 units)

331. LINEAR ALGEBRA

Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic and Hermitian forms; applications. A knowledge of a computing language is strongly recommended. *Prerequisite: Mathematics 202 or 203 or consent of instructor.* (5 units)

335. COMBINATORICS

Permutations and combinations, generating functions, principle of inclusion and exclusion, Polya's counting theory and other topics. *Prerequisite: Mathematics 203 or consent of instructor.* (5 units)

340. INTRODUCTION TO PROBABILITY

Probability spaces, independence, conditional probability, densities, mass, and distribution functions, moments, joint and marginal distributions, moment generating functions, Chebychev's inequality, law of large numbers and other topics. *Prerequisite: Mathematics 335 or consent of instructor.* (5 units)

341. INTRODUCTION TO MATHEMATICAL MODELS

Linear and probabilistic models, computer simulation, difference and differential equation models. *Prerequisites: Mathematics 331, 340 and Computer Science 131 or 140 or consent of instructor.* (5 units)

350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION

After a brief introduction to descriptive statistics, course will emphasize hypothesis testing and estimation, using packaged computer programs. *Prerequisite: one term of college mathematics.* (5 units)

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420. NUMERICAL METHODS

Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. *Prerequisites: Mathematics 203 and Computer Science 131 or equivalent.* (5 units)

445. INTRODUCTION TO MATHEMATICAL STATISTICS

Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing, linear statistical models. *Prerequisite: Mathematics 332.* (5 units)

504. QUANTITATIVE TOOLS FOR MANAGEMENT

An intensive introduction to applied topics in statistics, algebraic functions and linear programming for graduate students. No credit will be awarded to students who have had all of the following: Mathematics 110 or 120, Administration 210 or Mathematics 350, and Administration 304. May not be counted toward fulfilling requirements for any degree program offered by the School of Administration or the School of Natural Sciences. (Also offered as Administration 504. Students may not receive credit for both.) (5 units)

539. ADVANCED GEOMETRY

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. *Prerequisite: Mathematics 331 or consent of instructor.* (5 units)

550. ANALYSIS

Continuous and differentiable functions, infinite series, Riemann and improper integrals. Uniform convergence, computation with series, functions represented by integrals, Fourier series, Lebesgue measure and integration. *Prerequisite: Mathematics 203 or 331 or consent of instructor.*

A. (5 units)

B. (5 units)

560. TOPICS IN ADVANCED ANALYSIS

A. Ordinary Differential Equations. *Prerequisites: Mathematics 331 and Computer Science 125 or 140.* (5 units)

B. Functions of a Complex Variable. *Prerequisite: Mathematics 203.* (5 units)

C. Topology. *Prerequisite: Mathematics 332.* (5 units)

570. TOPICS IN ALGEBRA

Abstract algebra includes the study of groups, rings and fields, while number theory provides examples and motivation for the algebraic concepts through studying the natural numbers.

A. Abstract Algebra. *Prerequisite: Mathematics 332.* (5 units)

B. Advanced Abstract Algebra. *Prerequisite: Mathematics 570A.* (5 units)

C. Number Theory. *Prerequisite: Mathematics 331.* (5 units)

595. INDEPENDENT STUDY

An independent study course for senior mathematics majors. *Prerequisites: Mathematics 331 and 550A, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

MILITARY SCIENCE (ROTC)

Military Science Office

Student Services Building, Room 124

887-7273

The military science program is designed to provide an on-campus commissioning program available to all students who may wish to consider a career as an Army officer or to serve as a commissioned participant in the reserve components while in a civilian status. Students may pursue any academic major while participating in the military science program, also known as the Reserve Officers' Training Corps (ROTC). Enrollment in ROTC for fulfillment of requirements for commissioning may commence during any phase of college attendance.

All work in the basic course of study in the program may be waived by the ROTC staff for students who have undergone certain military experiences, for example, appropriate active duty. No CSCSB academic credit will be given in granting such waivers.

Every ROTC student is required to attend an off-campus leadership laboratory 4½ hours per month.

Courses in the basic course of study are open to all students (with no commitment to ROTC), whereas the advanced course of study courses are open only to ROTC students.

The military science (ROTC) basic course of study for freshmen and sophomores consists of the following: History 325A, B and C; Sociology 369 A and B; Military Science 253 or Administration 302, and Physical Education 146 (Orienteering).

The advanced course of study for juniors and seniors consists of the following: Military Science 351, 352, 353, 451, 452, 453 plus an ROTC advanced camp.

Certificate Program

A certificate program in military science is offered by the College. Details concerning this program are found on Page 100.

253. PSYCHOLOGY OF LEADERSHIP AND MANAGEMENT

Psychological theories, models and concepts as applied to the practice of leadership and management. (2½ units)

351. SMALL UNIT OPERATIONS I

Current tactical doctrine as applied to small unit operations. *Prerequisite: advanced standing in the ROTC program.* (2 units)

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352. SMALL UNIT OPERATIONS II

Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leader's role. *Prerequisite: Military Science 351.* (2 units)

353. ADVANCED MILITARY LEADERSHIP AND MANAGEMENT

Leadership skills required of an ROTC cadet at advanced camp and as a junior officer in the armed forces. *Prerequisite: Military Science 352.* (2 units)

451. MILITARY LAW

Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. *Prerequisite: ROTC Advanced Camp.* (2½ units)

452. CONTEMPORARY MILITARY POLICY

Contemporary military policy and related subjects of topical military interest relevant to the training of junior-level officers. *Prerequisite: Military Science 451.* (2½ units)

453. SENIOR LEADERSHIP SEMINAR

Leadership and management problems encountered in a company-sized unit, with emphasis on the role of the junior officer. *Prerequisite: Military Science 452.* (2½ units)

MUSIC

Department of Music
Creative Arts Building, Room 175
887-7454

The contemporary musician has a potential access to more kinds of music than ever before in history. The music curriculum—with courses in electronic music, performance, world music, historical studies, music education and integrated theory—reflects that diversity in that it offers programs for the student who wishes to enrich his or her education, become a professional musician, pursue an advanced degree in music or enter the teaching profession.

Requirements for the Bachelor's Degree

Requirements for the major: proficiency in theory equal to Music 100 or its equivalent. 75 units distributed as follows: Music 111-112-313-314-315-542; Music 304-305-306, three units of applied music at the upper-division level, Option I or Option II; proficiency in piano, demonstrated by satisfactory completion of a placement examination or by passing Music 222 with a minimum grade of B; successful completion of six repertory listening examinations; six quarters of concert attendance (at least eight Music Department concerts, recitals and related programs must be attended per quarter) or equivalent.

Option I. Music 210, 400, 402 and 15 units at the upper-division level selected in consultation with the faculty advisor. Participation in a performance ensemble is required each quarter in residence. A half solo recital is required in the junior year, and a full solo recital is required in the senior year. Option I, open to all students, is especially suited as preparation for further professional study.

Option II. One unit each of Music 205 and 206 (vocal emphasis majors take Music 207 in lieu of Music 206); two units each of Music 201, 202, 203, 204, Music 210, 311 AB (or 312 AB), 350, 406, 408. Participation in a large performance ensemble is required each quarter in residence. A full solo recital is required in the senior year. Open to all students, Option II is especially suited as preparation for the Ryan Act single subject credential in music.

Honors in Performance: Honors in Performance is a continuous six-quarter program designed specifically for upper-division students who show particular distinction as performers and who demonstrate exceptional promise for future growth.

Students admitted to the program will work with their applied instructors to develop an approved individual program of study which will be reviewed each quarter by the faculty. Honors students will present a public junior and senior recital.

Upon completion of the program, Honors in Performance will be noted on the student's transcript and successful candidates will be publically recognized in a special honors concert.

The following criteria and procedures have been established:

1. Candidates will be accepted into the program upon recommendation of the studio instructor and the approval of the music faculty.
2. Entering students must show evidence of previous training, experience and quality of work.
3. A long-range program of instruction will be arranged between the student and the instructor. This program, taking into consideration the student's present capability and future potential, will be designed to include literature necessary for continued growth, as well as including works considered necessary to musical literacy. Student progress in the program will be evaluated each quarter by the department.
4. Honors candidates are expected to perform in public with reasonable regularity.
5. Candidates who have successfully completed five quarters in the program will then register for "Honors in Performance."
6. Honors students will register for "Honors Senior Recital" in lieu of "Senior Recital."

The department has a number of performance groups open to all students. The nature of these groups makes it essential that students register for a minimum of two or more successive quarters in any one ensemble.

A maximum of 15 units in applied music or courses listed under music education may be included in the total requirements for the major. Further information may be found in the department's Handbook For Music Majors.

Requirements for a minor: Music 100, 180, 220; at least one course in world music; two other five-unit courses, one of which must be at the upper-division level; and the successful completion of three repertory listening examinations.

THEORY

The integrated music theory courses are the core of a program which seeks to develop in the student the ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music.

100. BASIC MUSICIANSHIP

Rudiments of music: pitch, rhythm, scales, melody, sightsinging, dictation and introductory keyboard activity. Credits may not be counted toward fulfilling requirements of the music major. Lecture and two hours of laboratory. (5 units)

111. THEORY I

Basic materials of music and how they combine to create musical structures. Analysis of representative works is combined with creative work in counterpoint and harmony, together with sightsinging, ear training and keyboard harmony. Lecture and four hours of laboratory. *Prerequisite:* Music 100 or equivalent or placement examination. (5 units)

112. THEORY II

Continuation of Music 111. Lecture and four hours of laboratory. *Prerequisite:* Music 111 or equivalent or consent of instructor. (5 units)

313. THEORY III

Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into 20th-century practice; analysis of representative compositions; continuation of sightsinging, ear and keyboard training. Lecture and four hours of laboratory. *Prerequisite: Music 112 or equivalent, or consent of instructor.* (5 units)

314. THEORY IV

Continuation of Music 313. Lecture and four hours of laboratory. *Prerequisite: Music 313 or equivalent or consent of instructor.* (5 units)

315. THEORY V

Continuation of Music 314. Lecture and four hours of laboratory. *Prerequisite: Music 314 or equivalent or consent of instructor.* (5 units)

542. STUDIES IN MUSICAL ORGANIZATION

Intensive study of aspects of musical organization: tonal, melodic and rhythmic. *Prerequisite: satisfactory completion of Music 315 or equivalent.* (5 units)

HISTORY AND LITERATURE

These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized.

180. STUDIES IN MUSIC

Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis. (5 units)

304. HISTORY OF MUSIC I

Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. *Prerequisite: Music 112 or consent of instructor.* (5 units)

305. HISTORY OF MUSIC II

Continuation of Music 304. Baroque to the late nineteenth century. *Prerequisite: Music 112 or consent of instructor.* (5 units)

306. HISTORY OF MUSIC III

Continuation of Music 305. Late Romantic to the present. *Prerequisite: Music 112 or consent of instructor.* (5 units)

311. CHORAL CONDUCTING

A comprehensive survey of standard choral literature.

- A. Study and application of interpretative aspect of choral conducting. *Prerequisite: Music 210.* (2½ units)
- B. Study and survey of vocal music for large and small organizations, music for madrigal groups, glee clubs, popular and jazz choirs. *Prerequisite: Music 311A.* (2½ units)

312. INSTRUMENTAL CONDUCTING

Emphasis on techniques for performance of standard orchestral and wind ensemble/concert band literature.

- A. Level of literature discussed includes elementary and early secondary grades. *Prerequisite: Music 210, or consent of instructor.* (2½ units)
- B. Level of literature discussed includes secondary grades and professional ensembles. *Prerequisite: Music 312A or consent of instructor.* (2½ units)

400. STUDIES IN COMPOSERS

Intensive study into works of a particular composer. Content will vary. May be repeated for credit. (5 units)

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402. STUDIES IN GENRES

Intensive study into a particular genre or form, such as symphony, concerto, oratorio, opera. Content will vary. May be repeated for credit as topics change. (5 units)

406. ORCHESTRATION

Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups. *Prerequisite: Music 112 or consent of instructor.* (2½ units)

408. ARRANGING

Continuation of Music 406. Techniques of arranging for instrumental and vocal groups. *Prerequisite: Music 406 or consent of instructor.* (2½ units)

426. STUDIES IN MUSIC HISTORY

Intensive study in selected style periods of music. May be repeated for credit as topics change. (5 units)

510. SPECIAL TOPICS IN MUSIC

Areas of special interest in the various fields of music selected for special presentation and development. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (5 units)

WORLD MUSIC

The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand the role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

350. MUSIC OF OTHER CULTURES

Offered either as a survey of world music or as an intensive study into the music of a particular country or region. May be repeated for credit. (5 units)

351. MEXICAN AND CHICANO MUSIC

Musical cultural heritage of Mexico and its relation to the American community. (5 units)

352. AFRO-AMERICAN MUSIC

Historical development of the Afro-American musical heritage. (5 units)

360. MUSIC IN THE UNITED STATES

Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition. (5 units)

COMPOSITION

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences. Composition courses may be repeated for credit with consent of instructor.

416. ELECTRONIC MUSIC

Techniques of electronic composition. Experimentation based on individual abilities and preferences. Non-majors encouraged to enroll. (5 units)

418. SYNTHESIZERS

Use and understanding of voltage control devices, particularly the Buchla, Synthi and Moog synthesizers. *Prerequisite: Music 416 or consent of instructor.* (2½ units)

419. STUDIO RECORDING TECHNIQUES

Introductory course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. (2½ units)

INDEPENDENT STUDY**528. SPECIAL PROJECTS**

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. *Prerequisite: consent of instructor.* (1 to 5 units)

MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

201. CLASS STRINGS

Beginning study on violin, viola, cello and bass. May be repeated for credit. (1 unit)

202. CLASS WOODWINDS

Beginning study on selected woodwinds. May be repeated for credit. (1 unit)

203. CLASS BRASS

Beginning study on selected brass instruments. May be repeated for credit. (1 unit)

204. CLASS PERCUSSION

Beginning study of percussion instruments. May be repeated for credit. (1 unit)

205. CLASS GUITAR AND FOLK MUSIC

Beginning guitar instruction designed for the prospective elementary school teacher. May be repeated for credit. (1 unit)

206. CLASS VOICE

Fundamentals of singing, voice production and diction. (1 unit)

207. DICTION FOR SINGERS

Proper diction and pronunciation used in English, Latin, Italian, French and German vocal literature. Examples drawn from standard vocal literature. (1 unit)

210. CONDUCTING

Introduction to basic conducting techniques. (2 units)

220. CLASS PIANO I

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

221. CLASS PIANO II

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

222. CLASS PIANO III

Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major. (1 unit)

302. MUSIC THEATRE PRODUCTION

(2 units)

519. AUDIO PRODUCTION

Methods for creating appropriate musical/audio instructional materials using basic audio production equipment. Does not count toward the music major. (2½ units)

531. MUSIC IN THE CLASSROOM

A correlated study of basic music theory, piano and vocal technique and classroom skills. Designed for the elementary teacher. Not open to majors in music. (5 units)

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APPLIED MUSIC

Music majors are required to take a minimum of three units of applied music at the upper-division level. Applied music units on the same instrument may not be taken concurrently. A maximum of 15 units may be applied to the total requirements for the major. Permission to register in upper-division music courses can be granted only after a placement audition or by faculty recommendation. Applied music courses are available to undergraduate music majors only.

For students planning a career in music education, it is strongly recommended that, in addition to the three-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

Students planning a career in performance are expected to study on their major instrument each quarter they are in residence. Students working in other areas may develop applied music programs consistent with their interest and goals.

The following music courses are available to undergraduate music majors only.

240. BEGINNING AND INTERMEDIATE VOICE

(1 unit)

241. BEGINNING AND INTERMEDIATE KEYBOARD INSTRUMENT

(1 unit)

242. BEGINNING AND INTERMEDIATE STRING INSTRUMENT

(1 unit)

243. BEGINNING AND INTERMEDIATE WIND INSTRUMENT

(1 unit)

244. BEGINNING AND INTERMEDIATE BRASS INSTRUMENT

(1 unit)

245. BEGINNING AND INTERMEDIATE PERCUSSION INSTRUMENT

(1 unit)

440. ADVANCED VOICE

Prerequisite: placement audition or consent of instructor. (1 unit)

441. ADVANCED KEYBOARD INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

442. ADVANCED STRING INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

443. ADVANCED WIND INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

444. ADVANCED BRASS INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

445. ADVANCED PERCUSSION INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit, but may not be counted toward fulfilling course requirements in the music major.

380. CHAMBER ORCHESTRA

Prerequisite: consent of instructor. (1 unit)

381. WIND ENSEMBLE

Prerequisite: consent of instructor. (1 unit)

382. CHAMBER MUSIC

Prerequisite: consent of instructor. (1 unit)

383. SUPPLEMENTARY KEYBOARD TECHNIQUES

An intensive piano course which includes techniques of sight reading, accompanying, improvisation and ensemble performance. *Corequisite: Music 241 or 441. Prerequisite: consent of instructor. (1 unit)*

385. CONCERT CHOIR

Prerequisite: consent of instructor. (1 unit)

386. CHAMBER SINGERS

Prerequisite: consent of instructor. (1 unit)

387. OPERA WORKSHOP

Prerequisite: consent of instructor. (1 unit)

391. JAZZ ENSEMBLE

Prerequisite: consent of instructor. (1 unit)

395. COLLEGIATE CHORUS

Designed to serve the needs of students with no prior choral experience who wish to perform familiar music in a popular style. Will present at least one public performance per quarter. Open to all students without audition. This course will not satisfy the music major ensemble requirement. (1 unit)

COMMUNITY SERVICE PROJECT

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)*

NATURAL SCIENCES

School of Natural Sciences

Biological Sciences Building, Room 130

887-7341

The College offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

100. DESCRIPTIVE ASTRONOMY

A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies and models of the universe. Discussions of space exploration and other methods of extending knowledge of the universe. No previous background in natural sciences is required. Lecture and two hours of laboratory. (5 units)

300. SCIENCE AND TECHNOLOGY

Relationship between science and technology—past, present and future—with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues. (5 units)

310. MAN AND HIS ENVIRONMENT

Effects of science and technology on the environment. Special attention will be given to pollution sources, effects and possible solutions. (5 units)

312. SCIENTIFIC CONTRIBUTIONS TO THE DEVELOPMENT OF CIVILIZATION: "ASCENT OF MAN"

Scientific discoveries that have shaped human history, interrelationship between science and the humanities, impact of science and technology on civilization. (5 units)

314. THE COSMOS

Presentation of fundamental ideas in the physical and biological sciences relative to: origin and evolution of the universe and of galaxies, supernovae, stars, planets, pulsars, quasars, black holes, planetary exploration, and possibilities of extraterrestrial life and communication. (5 units)

320. ENERGY

Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. (5 units)

351. HEALTH AND HUMAN ECOLOGY

A survey of the impact of physical, social and biological environments on health related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements. (5 units)

395. DIRECTED STUDY

Reading and library research in one of the natural sciences disciplines conducted under the direction of a faculty member. *Prerequisites: consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

486. SCIENCE, TECHNOLOGY AND WARFARE

Historical examination of the effect of science and technology on warfare. (5 units)

495. EXPOSITORY WRITING FOR THE NATURAL SCIENCES

Writing on topics related to the natural sciences, including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495) may be taken for credit. Graded A, B, C/No Credit. *Prerequisites: English 101 and a minimum of 90 quarter (60 semester) units of college credit.* (5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF NATURAL SCIENCES SUBJECTS

Individualized instruction in the methods and materials for the teaching of such natural sciences subjects as chemistry, life science, mathematics, physical education and physics. This course may not be counted toward fulfilling requirements of courses in the above majors. *Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program or consent of School of Natural Sciences.* (5 units)

595. INDEPENDENT STUDY

Research in special topics including library studies, field and/or laboratory work in one of the Natural Sciences disciplines under the direction of a faculty member. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* A maximum of six units in Natural Sciences 595 may be applied toward graduation. (Credit to be arranged: 1 to 6 units)

NURSING

Accredited by the National League for Nursing

Department of Nursing
Health Center, Room 112
 887-7346

The Department of Nursing offers a Bachelor of Science degree with a major in nursing. This upper-division nursing major is planned specifically for associate degree graduates who wish advanced education.

Learning experiences provide opportunity for students to function independently and interdependently with other health care professional personnel in a variety of settings. These experiences encompass care of members of society with a wide range of health care needs across the life span. Through the nursing process, students assist clients to attain, regain and maintain health by means of health promotion, restoration and prevention of illness. Students in the last quarter, with faculty consultation, may elect independent study of client health problems in an area of interest. Graduates are eligible for certification as public health nurses in the State of California.

Requirements for the Bachelor's Degree

Purposes

The purposes of the program are to provide the registered nurse with:

1. Opportunity for professional and personal growth and development;
2. Preparation to function as a generalist on a professional level;
3. Insight into the changing health care needs of society and new techniques for participation in meeting them;
4. Expanded scope of knowledge for leadership in improvement and development of nursing practice; and
5. Qualification for admission to graduate study in nursing.

Departmental Admission Requirements

1. Meet requirements for admission to the college as a transfer student at the Junior level.
2. Show evidence of completion of an associate degree in nursing.
3. Hold a current license as a registered nurse in the State of California.
4. Complete one lower-division college course in each of the following: anatomy-physiology, chemistry (with laboratory), growth and development (birth through senescence), and microbiology.
5. Complete one year of documented work experience as a registered nurse (recommended).

Departmental Admission Procedure

Students are admitted to the nursing program in fall and winter quarters only. Students admitted to the College who have an interest in the nursing major should:

1. Submit a nursing application form to the Department of Nursing office with two letters of reference from previous employers or instructors.
2. After notification of acceptance, obtain an appointment with a nursing advisor prior to registration.
3. Arrange for nursing achievement tests prior to registration for the first clinical course. Scores will be used for counseling purposes.
4. Submit a medical report of a physical examination within six months prior to admission to the first clinical course. This is to determine student ability to engage in the activities required to meet expectations of the nursing program. Include chest x-ray or tuberculosis skin test.

Departmental Regulations

1. Students must maintain good academic standing and attain grades of "C" or better in all nursing and support courses in order to progress in the program. Nursing courses in which students earn less than a "C" may be repeated for credit only once, and this repetition requires both departmental consent and the appropriate College petition.
2. Students on academic probation must remove grade-point deficiencies before progressing further in the nursing program.
3. Students in the nursing program must carry malpractice insurance in order to be admitted to clinical courses.
4. Students should have access to insured transportation for their clinical experiences.
5. Clothing required by the field placement agency, appropriate for that setting, must be provided by students, with identification by school name pin (name, R.N., CSCSB).
6. Students may enroll in only one clinical course (lecture and laboratory) per quarter.
7. Students must take the lecture and corresponding laboratory concurrently (for example, Lecture A and Lab A).
8. Laboratory sections are limited to 12 students who must have consent of instructor and department.

Requirements for the degree:

1. A total of 198 quarter units is required for the Bachelor of Science degree in nursing. Up to 90 quarter units earned in transferable lower-division courses may be applied toward the degree (A.A. nursing program).
2. Courses required for the major: Nursing 302, 306, 314, 315, 354, 355, 356, 357, 380, 410, 411, 422, 430, 431, 472, 473; Biology 310; Health Science 371, 451; Mathematics 350. Electives: 11 units to be selected in consultation with the departmental advisor.
3. Upper-division general education requirement: two courses. To be chosen from among the designated upper-division general education lecture courses in two of three areas: Humanities (319, 330, 350, 353, 360); Natural Sciences (300, 310, 312, 320, 350, 351); Social Sciences (300, 304, 315, 321, 333, 345).

To accommodate to the needs of employed nurses, elective, support, general education and, when feasible, nursing lecture courses will be scheduled both during daytime and evening hours. The responsibility, however, is the student's to determine realistic college unit loads in consideration of home and employment obligations.

Health Services Credential authorizing services as a school nurse: The program in school nursing fulfills the requirement of the credential defined by the Ryan Act. It is accredited by the Commission for Teacher Preparation and Licensing of the State of California. This interdisciplinary program involves nursing, health science and teacher education offerings. The credential, requiring 48 quarter units of credit, is awarded by the School of Education. The applicant must hold a Bachelor of Science degree in Nursing. For further information, contact the School of Education.

Departmental Honors: A graduating senior will be awarded departmental honors in nursing after meeting the following requirements: achieve a minimum GPA of 3.5 in all upper-division courses taken at the College or an overall GPA of at least 3.0 and a clear demonstration of ability to do independent work in nursing.

302. TRENDS IN NURSING CARE, ROLES, EDUCATION

Introductory course designed to assist students in developing the professional role. (5 units)

306. CURRENT INTERDISCIPLINARY RELATIONSHIPS IN HEALTH CARE DELIVERY

Impact of legal, ethical, technological and political forces on interprofessional relationships in the health care delivery system from the national, state and local points of view. (5 units)

314. HEALTH ASSESSMENT AND MAINTENANCE: ADULT/AGED

Bio-psycho-social-environmental health assessment; planning health promotion and illness prevention of the adult/aged by applying the nursing process. *Prerequisites:* admission to nursing program; *Nursing 302, Biology 310 and consent of department chair prior to registration. Prerequisite or corequisite:* *Nursing 380.* Corequisite: *Nursing 315.* (5 units)

315. HEALTH ASSESSMENT AND MAINTENANCE LABORATORY: ADULT/AGED

Clinical practice in skills of health assessment, planning health promotion and illness prevention of the adult/aged by applying the nursing process. *Prerequisite:* consent of department chair prior to registration. Corequisite: *Nursing 314* (4 units)

354. HEALTH CARE OF WOMEN

Selected aspects of the health care of women over the life cycle with emphasis on a holistic philosophy. Contribution of the nurse in aiding women attain, regain and maintain a state of high level wellness. *Prerequisites:* *Nursing 314 and consent of department chair prior to registration.* Corequisite: *Nursing 355.* (2½ units)

355. HEALTH CARE OF WOMEN: LABORATORY

Clinical practice in skills of assessment and management of health problems unique to women over the life cycle. Students participate in planned experiences in a variety of clinical settings. *Prerequisite:* consent of department chair prior to registration. Corequisite: *Nursing 354.* (2 units)

356. HEALTH CARE OF CHILDREN

Holistic health care from infancy through adolescence, considering home, school and other environments. Role of the nurse in aiding children to attain, regain and maintain a state of high level wellness. *Prerequisites:* *Nursing 314 and consent of department chair prior to registration.* Corequisite: *Nursing 357.* (2½ units)

357. HEALTH CARE OF CHILDREN: LABORATORY

Clinical practice in assessment and management of health problems common to infants and children. Students participate in planned experiences in a variety of clinical and school settings. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 356. (2 units)

358. NURSING CARE OF CHILDREN IN THE SCHOOL SETTING

Role of the nurse in the school setting. Focus is on health appraisal, intervention and teaching aimed at promoting responsibility among the students for their own health. Included is the nurse's role as consultant to teachers and administrators regarding the health and safety aspects of the school environment. *Prerequisites:* Nursing 356 and consent of department chair prior to registration. Corequisite: Nursing 359A. (2½ units)

359A. NURSING CARE OF CHILDREN IN THE SCHOOL SETTING: LABORATORY A

Clinical practice in the elementary and secondary schools in appraisal of health status, vision and hearing conservation, dental and nutritional status and prevention and control of communicable diseases. Students must complete both 359A and B to apply these units toward the Health Services: School Nurse Credential. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 358. (2 units)

359B. NURSING CARE OF CHILDREN IN THE SCHOOL SETTING: LABORATORY B

Clinical practice in the elementary and secondary schools dealing with management of common conditions and illnesses, emergency care and high-risk children. Detection and management (including prevention) of child abuse, drug abuse, teenage pregnancy and other conditions which interfere with learning. Students must complete both 359A and B to apply these units to the Health Services: School Nurse Credential. *Prerequisite:* consent of department chair prior to registration. (2 units)

380. PATHOPHYSIOLOGICAL CONCEPTS AS APPLIED TO NURSING PRACTICE

Pathophysiological concepts as applied to nursing practice with an emphasis on common disorders as stressors causing maladaptation. *Prerequisites:* admission to the nursing program, Nursing 302 and Biology 310. (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of four units. No more than four units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisites:* submission of a project proposal and consent of department chair prior to registration. (Credit to be arranged: 1 or 2 units)

410. PSYCHOSOCIAL NURSING

Mental health concepts emphasizing the nurse's role in the prevention of mental disorders; the promotion, restoration and maintenance of mental health in individuals, families and groups in the community. *Prerequisites:* Nursing 306, 354, 356 and consent of department chair prior to registration. Corequisite: Nursing 411. (5 units)

411. PSYCHOSOCIAL NURSING LABORATORY

Application of mental health concepts in the behavioral assessment of individuals and families; planning and evaluation of mental health nursing interventions in a variety of settings. *Prerequisite:* consent of department chair prior to registration. Corequisite: Nursing 410. (4 units)

422. INTRODUCTION TO NURSING RESEARCH

Introduction to the research process, methodology of carrying through a research project and analysis of relevant studies affecting nursing practice and the profession. *Prerequisites:* Nursing 302, Mathematics 350, Health Science 451 and consent of department chair prior to registration. (5 units)

430. COMMUNITY HEALTH NURSING

Concepts related to maximizing the potential for health of individuals, families and groups within the environment in which they are functioning. Emphasis on detection and prevention of disease, promotion of health in a variety of settings, including socio-cultural influences in the application of the nursing process. *Prerequisites: Nursing 306, 354, 356, Health Science 451 and consent of department chair prior to registration.* (5 units)

431. COMMUNITY HEALTH NURSING LABORATORY

Application of nursing concepts in providing health care and health education to assist individuals, families and groups in a variety of settings; to prevent disease, promote health and maximize their potential capabilities. Development of skills in interdisciplinary and interagency collaboration and the participation in the evaluation and improvement of the health status of the community. *Prerequisite: consent of department chair prior to registration.* Corequisite: Nursing 430. (4 units)

472. PRINCIPLES OF NURSING LEADERSHIP

Principles of leadership related to organization and delivery of nursing care and patient advocacy in a variety of settings. Theories and methods of organizational change and their application to nursing. *Prerequisites: Nursing 430 and consent of department chair prior to registration.* Corequisite: Nursing 473. Prerequisite or corequisite: Nursing 422. (4 units)

473. PRINCIPLES OF NURSING LEADERSHIP LABORATORY

Principles of organization, administration and leadership applied to the delivery of nursing care. Theories and practice in the implementation of change. *Prerequisite: consent of department chair prior to registration.* Corequisite: Nursing 472. (2 units)

595. INDEPENDENT STUDY

Research conducted under the direction of a faculty member. A total of six units in Nursing 595 may be applied toward graduation. *Prerequisites: Nursing 422, senior standing, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

PARALEGAL STUDIES

*Department of Political Science
Administration Building, Room 130
887-7238*

The courses listed below are offered in support of the certificate program in paralegal studies, Page 101. Further information about this certificate program can be obtained from the Department of Political Science.

It is strongly advised that students take Paralegal Studies 385 in the first quarter of the program as it provides an introduction to legal language.

370. WILLS, ESTATES AND TRUSTS

Study of law relating to the control and disposition of property inter vivos (between living persons) and after death, wills, intestate succession (descent and distribution), future interests and trusts, estates in land, principles of estate planning and administration of an estate. (5 units)

371. CONTRACT LAW

Study of law relating to contract formation, formalities, performance and breach. Effect on a contractual relationship of various types of subsequent conduct by the contracting parties and remedies available for breach. Introduction to the Commercial Code of California. (5 units)

372. TORT LAW

Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations. (5 units)

373. PROPERTY LAW

Basic principles of law relating to various types of property interests: real and personal, tangible and intangible, public and private; acquisition; bailment; fixtures; deeds; escrow, recording and search of public documents and security instruments in connection with real property. (5 units)

376. FAMILY LAW AND COMMUNITY PROPERTY

Formation and dissolution of the family unit: custody, support, property rights and obligations. (5 units)

377. TRIAL PRACTICE

Studies of trials at common law and in equity, including examination, competency and privileges of witnesses, judicial notice, burden of proof and presumptions; tactics of litigation, discovery, fact investigation, jurisdiction, remedies, civil procedure and drafting of pleadings. (5 units)

378. CORPORATE LAW

Legal status of the corporate entity, corporate structure and distribution of powers and duties among shareholders, directors and officers. (5 units)

379. ENVIRONMENTAL LAW

Survey course examining the implementation, impact and effectiveness of statutes and judicial decisions addressing current environmental problems and the standing of parties to raise environmental issues. (5 units)

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380. CRIMINAL LAW

Theory and practice of criminal law from a case study approach. (5 units)

385. LEGAL RESEARCH AND WRITING

Methods of legal research, problem analysis, and writing techniques. Emphasis on developing ability to write concise case briefs, case syntheses and legal documents. (5 units)

575. INTERNSHIP IN PARALEGAL STUDIES

Supervised work and study in public and private legal organizations. *Prerequisites: completion of 25 units of paralegal certificate course work and consent of paralegal studies coordinator.* (5 units)

PHILOSOPHY

Department of Philosophy

Pfau Library Building, Room 236B

887-7469

Philosophy is humanity's oldest intellectual discipline. Philosophy's concerns range from questions fundamental to human understanding such as the nature of man, knowledge, truth, being, existence, right, freedom and the good life; to attempts to clarify and understand problems such as the equitable distribution of society's goods, political violence, the right to privacy and governmental honesty.

Because at all levels philosophy aims at the construction of sound arguments and clear concepts, students develop high levels of skill in the analysis and organization of ideas. Acquisition of these basic intellectual skills is excellent preparation for further study and for entering a variety of career fields. Philosophy is a strongly recommended prelaw major and can provide solid background for careers in journalism, public service, government and politics among others. In addition, it is excellent preparation for graduate and professional study in a number of fields.

Requirements for the Bachelor's Degree

Requirements for the major: 50 units including 10 units from the history sequence (Philosophy 301, 305, 307); 5 units from a systematic field (Philosophy 312, 350, 360, 370, or 380); and either emphasis Area A (systematic philosophy) or emphasis Area B (philosophy and public affairs).

Area A: the additional course from the history sequence (see above) plus Philosophy 312, 350 and 380.

Area B: 20 units chosen from Philosophy 320, 340, 355, 362, 365, 465.

Up to 15 units in the philosophy major may be lower division.

In order to meet entrance standards for most graduate departments of philosophy and to qualify for strong recommendations from this department, students planning to apply for graduate programs should also complete 10 units of additional upper-division elective philosophy course work, plus a minimum of 20 units, or equivalent proficiency, in one foreign language (preferably French, German, Latin or Greek), with attainment of demonstrable reading skill.

Requirements for the minor: 30 units of philosophy course work, no more than 10 of which may be lower division; the 30 units must include at least 5 units from the sequence of readings in the history of philosophy: 301, 305; and 5 units from a systematic field chosen from 312, 350, 360, 370.

Departmental Honors: The departmental honors program is individually designed to suit the interests of each student. Each student, with the advice of a

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faculty advisor, prepares a book list which forms the basis of an honors examination. Successful completion of the examination results in the awarding of departmental honors. Application for the honors program must be made by the beginning of the senior year.

Certificate Program

The Department of Philosophy offers an interdisciplinary certificate program in Religious Studies. Details concerning this program are found on Page 101.

105. ARGUMENT AND EVIDENCE

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. (5 units)

190. STUDIES IN PHILOSOPHY

An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. (5 units)

301. GREEK AND ROMAN PHILOSOPHY

Major philosophic movements from the Pre-Socratics and Plato to the Stoics, Epicureans, Sceptics and Mystics. (5 units)

305. MODERN PHILOSOPHY, SIXTEENTH-NINETEENTH CENTURIES

Roots of modern philosophy and science from Galileo and Descartes to Hegel and Marx. (5 units)

307. CONTEMPORARY PHILOSOPHY

Recent directions in philosophy such as existentialism, phenomenology, positivism, pragmatism, ordinary language, structuralism, analysis and the like. (5 units)

312. PHILOSOPHY OF LOGIC

Inquiry into diverse systems and conceptions of logic, ancient to modern. (5 units)

314. SYMBOLIC LOGIC

Self-paced course in mathematical logic, involving extensive work with a computer program. *Prerequisite: consent of instructor.* (5 units)

316. DISCOVERY AND METHOD

Studies in the philosophy of the natural and social sciences treating questions such as the nature of creativity, proof, explanation, experiment and scientific revolutions. (5 units)

320. PHILOSOPHY OF EDUCATION

An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey. (5 units)

330. PHILOSOPHY OF LANGUAGE

Inquiry into the nature and uses of language, focusing on concepts such as meaning, reference, metaphor, speech act and predication. (5 units)

340. PHILOSOPHY OF MAN

Inquiry into traditional and contemporary views of the nature of man and their implications for human life. (5 units)

350. ETHICS

Analysis of problems intrinsic to human action, through the study of alternative formulations offered by some great philosophers, present and past. (5 units)

355. CONTEMPORARY ETHICAL ISSUES

Consideration of moral problems intensified by the rapid pace of social, economic and technological changes: genetic engineering, euthanasia, "the new sexual ethics," abortion, the right to privacy. (5 units)

357. PHILOSOPHY AND SEXUAL POLITICS

Examination of whether there are ethically significant differences in male and female human nature and, if so, whether these justify differential treatment and social roles. (5 units)

360. POLITICAL PHILOSOPHY

Some important ancient, medieval and modern works are examined systematically to illuminate issues concerning community action. (5 units)

362. PHILOSOPHY AND DEMOCRACY

Philosophic problems of democracy from Socrates' debates with the Sophists to contemporary discussions. Emphasis on the ethical values and arguments involved in topics such as participation, citizenship and responsible decision making. (5 units)

365. POWER, AUTHORITY, FORCE AND VIOLENCE

Inquiry into the relations and conflicts between might and right, using philosophic and historical documents. Focus is on the role of ethical justifications and reasoned arguments in action. (5 units)

370. PHILOSOPHY OF ART AND CRITICISM: AESTHETICS

Principles and problems of art are analyzed with the help of important writings that raise questions of general theory and critical practice. (5 units)

380. BEING, EXISTENCE AND KNOWING

Inquiry into first principles underlying reflection on the nature of the universe, man and his attempts to achieve knowledge. (5 units)

450. MAN'S SEARCH FOR GOD OR GODS

A probing of some significant ideas about God and the philosophy of religion. (5 units)

452. CLASSICS OF EASTERN THOUGHT

Study of selected Eastern masterpieces such as the *Bhagavad Gita*, *The Tao of Lao Tzu* and the *Dhammapada*. (5 units)

465. PHILOSOPHY OF LAW

Intensive study of the concept of law and its relation to power, command, reason, nature, justice, prediction. (5 units)

490. SPECIAL TOPICS IN PHILOSOPHY

Study of a specially selected idea, problem or theory in philosophy. Course may be repeated for credit when topic is changed. (5 units)

PHYSICAL EDUCATION AND RECREATION

*Department of Physical Education and Recreation
Physical Education Building, Room 120
887-7561*

The Department of Physical Education and Recreation offers a curriculum leading to a Bachelor of Science with a major in physical education. In addition, a minor in physical education, a minor in recreation and an adapted physical education emphasis credential are offered.

The major in physical education is designed for the student interested in preparing to (1) become a physical education teacher; (2) select a career in nonteaching fields related to physical education, such as commercial physical education, sports business and commercial leisure services; and (3) pursue graduate work in physical education.

Requirements for the Bachelor's Degree

Requirements for the major: Physical Education 210A, 210B, 210C, 210D, 254; three courses selected from Physical Education 260A, 260B, 260C, 260D, and 260E; two courses selected from Physical Education 264A, 264B, and 264C; Physical Education 280, 320, 321, 322, 355, 370, 454, 470, 480, 481, 495, and Biology 222.

Note: For students majoring in physical education, successful completion of Physical Education 260 and Physical Education 264 will fulfill the College physical education activity requirement.

Requirements for a minor in physical education: Physical Education 210A, 254, 260, 264, 280, 321 or 322, 470 and 481 (For 260: select two of five; for 264: select one of three).

Requirements for a minor in recreation: Physical Education 200, 203, 254, 271, 277, 365 and 470.

Requirements for an adapted physical education emphasis credential: Physical Education 330; four courses selected from Physical Education 331A, 331B, 331C, 331D and 331E, and Education 530.

Activity Courses (Physical Education 101–149)

The activity course program offers a wide variety of classes which provides students the opportunity to participate in physical activity on a regular basis; develop, improve and maintain a degree of physical fitness; learn and practice lifetime sports skills; and acquire the knowledge that physical exercise is essential for healthful adult living in current society. Classes are coeducational except where the type of activity deems it inappropriate. Not all courses listed are offered each academic year.

Requirements for graduation: Students under 25 years of age are required to complete three activity courses (6 quarter units of credit) in physical education. It is recommended that these courses be taken during the first year on campus. Students 25 years of age or older may substitute six credit hours of their choice. Students who need to meet a requirement in health in preparation for a teaching credential should consult the School of Education.

All physical education activity courses (courses numbered 101 through 149) are graded credit/no credit. The total number of physical education activity units which can be applied to the baccalaureate degree is 12.

The following activities include instruction at all skill levels unless specified in the class schedule as limited to beginning, intermediate or advanced level instruction.

101. INDIVIDUAL AND DUAL ACTIVITIES (2 units)

Archery	Individual and dual activities
Badminton	Lawn bowling
Bicycling (a)	Pickleball
Bowling (a)	Racquetball
Fishing (a)	Skiing-Alpine (a)
Golf (a)	Skiing-Nordic (a)
Gymnastics	Squash
Handball	Tennis
Horseshoes	

114. PHYSICAL FITNESS AND CONDITIONING ACTIVITIES (2 units)

Body conditioning	Ski conditioning
Circuit training	Weight training
Jogging	Yoga

117. COMBATIVE ACTIVITIES (2 units)

Boxing	Karate
Fencing	Wrestling
Judo	

121. TEAM ACTIVITIES (2 units)

Basketball	Soccer
Field hockey	Softball
Flag football	Speedball
Floor hockey	Team handball
Hockey	Volleyball

137. AQUATIC ACTIVITIES (2 units)

Advanced life saving (b)	Scuba diving (a,c,d,e)
Aquatic games and activities	Skin diving (a,c)
Basic rescue and water safety (b)	Springboard diving
Boating and canoeing (a,b)	Swimming (b)
Innertube water polo	Water polo

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- a. Field trips required
 - b. Red Cross certification available
 - c. NAUI certification available
 - d. *Prerequisite: skin diving or consent of instructor*
 - e. Doctor's physical examination required

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141. DANCE ACTIVITIES (2 units)

Aerobic	Jazz
Ballet	Jazz exercise
Belly	Modern
Disco	Social
Folk	Square

146. OUTING SKILLS ACTIVITIES (2 units)

Backpacking (a)	Orienteering (a)
Camping (a)	Survival skills (a)
Mountaineering (a)	

149. INDEPENDENT ACTIVITY PROJECT

Activity project designed to satisfy individual needs of students who cannot meet requirements of a regular activity class due to a medical, physical or other conflict; under the supervision of a faculty member. *Prerequisite: consent of department chair.* (2 units)

200. FIRST AID

Prevention of injuries and the emergency care and treatment of illnesses or injuries. To meet the requirements for standard Red Cross certification. (2 units)

203. INTRODUCTION TO RECREATION

Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation. (5 units)

210. TOPICS IN THE FOUNDATIONS OF PHYSICAL EDUCATION

Courses designed to survey the fundamental principles, objectives, history and philosophies in the discipline of physical education.

- A. Introduction to Physical Education (2½ units)
- B. Introduction to Adapted Physical Education (2½ units)
- C. History of Physical Education (2½ units)
- D. Philosophy of Physical Education (2½ units)

254. FIELD WORK IN PHYSICAL EDUCATION OR RECREATION I

A supervised experience in the Department of Physical Education and Recreation under the direction of a faculty member. *Prerequisite: Physical Education 260 A, B, C, D or E or 264 A, B or C.* (2 units)

260. ANALYSIS AND METHODS OF INDIVIDUAL/DUAL ACTIVITIES

Analysis and methods in teaching the techniques and skills of individual/dual activity. *Prerequisites: Physical Education 210A and possession of fundamental skills of each activity required for enrollment in each course.* (2 units each)

- | | |
|----------------------------|-----------------------------------|
| A. Racquetball and archery | D. Gymnastics and track and field |
| B. Golf and tennis | E. Badminton and combative |
| C. Swimming and dance | |

264. ANALYSIS AND METHODS OF TEAM ACTIVITIES

Analysis and methods in teaching the techniques and skills of team activity. *Prerequisites: Physical Education 210A and possession of fundamental skills of each activity required for enrollment in each course.* (2 units each)

- A. Volleyball and football (flag)
- B. Basketball and field hockey
- C. Soccer and softball

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- a. Field trips required
 - b. Red Cross certification available
 - c. NAUI certification available
 - d. *Prerequisite: skin diving or consent of instructor*
 - e. Doctor's physical examination required

267. SPORTS OFFICIATING

Rules interpretations, techniques and procedures utilized by sports officials, culminating in practical experience. *Prerequisite: consent of instructor.* (2 units each)

- | | |
|----------------------|------------------------|
| A. Baseball/softball | F. Swimming and diving |
| B. Basketball | G. Track and field |
| C. Football | H. Volleyball |
| D. Gymnastics | I. Water polo |
| E. Soccer | J. Wrestling |

271. RECREATION LEADERSHIP

Organization, supervision and administration of recreation programs and practical experience in recreation situations which provide the opportunity to develop leadership skills. (5 units)

277. RECREATION PROGRAMMING

Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art, sports. *Prerequisite: Physical Education 203 or 271.* (5 units)

280. PREVENTION AND TREATMENT OF ATHLETIC INJURIES

Theories and methods in the prevention and treatment of athletic injuries, plus training in cardiopulmonary resuscitation (CPR) which may lead to certification from the American Heart Association. *Prerequisite: Biology 222.* (5 units)

320. MOTOR LEARNING

Scientific analysis of perceptual motor behavior; learning, memory, transfer theories, motor control and motor performance in physical activity. (5 units)

321. SPORT AND SOCIETY

An examination of sociocultural aspects of sport with an emphasis on the American sport structure. (2½ units)

322. PSYCHOLOGICAL ASPECTS OF SPORT

The psychological realm of sport and physical activity including the nature, significance and development of sport psychology. (2½ units)

330. PHYSICAL EDUCATION FOR THE EXCEPTIONAL INDIVIDUAL

Investigation and analysis of disabilities encountered in the environment of physical education. *Prerequisites: Physical Education 210B and 320, or consent of department.* (5 units)

331. TOPICS IN ADAPTED PHYSICAL EDUCATION

Materials, techniques of assessment, methods of instruction and activities utilized in physical education for individuals with disabilities. *Prerequisite: Physical Education 330.*

- A. Adapted aquatics [American Red Cross certification] (2½ units)
- B. Physically handicapped (2½ units)
- C. Learning handicapped (2½ units)
- D. Communicatively handicapped (2½ units)
- E. Severely handicapped (2½ units)

355. PHYSICAL EDUCATION FOR CHILDREN

Development of physical education programs for children ages 5–12 including selection of activities. (5 units)

362. WATER SAFETY INSTRUCTION

Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. Meets standards for Red Cross certification for teaching all levels of swimming, life saving and small craft safety. *Prerequisite: current advanced life-saving certificate.* (2½ units)

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365. OUTDOOR EDUCATION AND CAMP LEADERSHIP

Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Includes a supervised leadership experience and field trips to observe camp facilities, programs and resources. (5 units)

370. MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION

Selection, application and interpretation of tests utilized in physical education and recreation.

Prerequisites: Physical Education 210A and 210B. (5 units)

454. FIELD WORK IN PHYSICAL EDUCATION OR RECREATION II

A supervised leadership experience in a physical education, recreational or intramural setting.

Prerequisites: Physical Education 254 and 470. (3 units)

470. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS

Organizational and administrative structures, problems, issues and practices relevant to physical education and athletics in various settings. *Prerequisites: Physical Education 260 A, B, C, D or E; and 264 A, B or C; or consent of department chair.* (5 units)

480. KINESIOLOGY

Analysis of human movement as based on anatomical, neuromuscular and mechanical principles.

Prerequisite: Biology 222. (5 units)

481. EXERCISE PHYSIOLOGY

Effects of physical activity on the physiological systems of the human body. *Prerequisite: Biology 222.* (5 units)

495. SEMINAR IN PHYSICAL EDUCATION

Selected topics in physical education and recreation. *Prerequisite: senior standing or consent of department.* (2½ units)

595. INDEPENDENT STUDY

Experimental effort, field or library research conducted under the direction of a faculty member.

Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. (Credit to be arranged: 1 to 5 units)

PHYSICS

Department of Physics

Physical Sciences Building, Room 27

887-7392 or 887-7341

Traditionally physics graduates either have gone on to graduate work in physics or have found employment in industrial or governmental laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work. A candidate for the B.S. degree may also take several courses selected from any of the offerings of the college.

Requirements for the Bachelor's Degrees

Requirements for the bachelor of arts degree: Physics 221-222-223, 225-226, and 25 additional upper-division units in physics ($2\frac{1}{2}$ of these units may be met by taking Computer Science 131, 240, or 310); Chemistry 215 or equivalent; and completion of a lower-division calculus sequence (Mathematics 200-201-202-203 or equivalent).

Requirements for the bachelor of science degree: Physics 221-222-223, 225-226, and 32.5 units selected from 311, 312, 313, 405, 411, 413, 430 and 440; Chemistry 215 or equivalent; Computer Science 131, 132, 240 and 310; completion of a lower-division calculus sequence (Mathematics 200-201-202-203 or equivalent); and 10 additional units selected from the offerings of the School of Natural Sciences with the approval of the Department of Physics (five of which will be either Chemistry 216 or an upper-division course which fulfills a requirement for a major offered by the School of Natural Sciences).

Completion of the calculus sequence is prerequisite for most upper-division courses leading to a major in physics. A comprehensive examination covering the major field of study is required in the senior year.

Requirements for a minor in physics: Physics 221, 225, 222, 226 and 223; 10 units of upper-division physics; and 15 units of a lower-division calculus sequence (Mathematics 200-201, and 202 or 203).

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100. PHYSICS IN THE MODERN WORLD

Examination of physics and its contemporary use, including topics of: optics, heat, electricity, sound, motion and radioactivity. This course is intended for students with little background in science. Lecture and two hours of laboratory. *Prerequisite: satisfactory score on the entry-level mathematics examination.* (5 units)

121. BASIC CONCEPTS OF PHYSICS I

First course of a two-course sequence surveying the basic concepts of physics, primarily for students entering fields relating to the biological sciences. Topics include waves, optics and mechanics. Lecture only. *Prerequisites: two years of high school algebra and one year of high school geometry.* Recommended preparation: Mathematics 120 or Mathematics 200. Corequisite: Physics 225. (4 units)

122. BASIC CONCEPTS OF PHYSICS II

Continuation of Physics 121. Topics include electricity, electric circuits, magnetism, fluids and modern physics. Lecture only. *Prerequisite: Physics 121 with a grade of C or better.* Corequisite: Physics 226. (4 units)

221. CLASSICAL MECHANICS

First course of a three-course sequence surveying physics. For students with a strong background in mathematics and the sciences. Lecture only. *Prerequisite or corequisite: Mathematics 200.* Corequisite: Physics 225. (4 units)

222. STATIC AND DYNAMIC ELECTRICITY

Lecture only. *Prerequisite: Physics 221 with a grade of C or better. Prerequisite or corequisite: Mathematics 201.* Corequisite: Physics 226. (4 units)

223. WAVES AND MODERN PHYSICS

Lecture and three hours of laboratory. *Prerequisite: Physics 222 with a grade of C or better.* (5 units)

225. PHYSICS LABORATORY I

Laboratory accompanying Physics 121 or 221. (2 units)

226. PHYSICS LABORATORY II

Laboratory accompanying Physics 122 or 222. (2 units)

311. CIRCUIT THEORY AND VECTOR ANALYSIS

Vector analysis and electrical circuit theory are presented and applied to a wide range of problems in physics. Lecture and three hours of laboratory. *Prerequisites: Physics 222 and 226 with a grade of C or better and Mathematics 203.* (5 units)

312. RELATIVITY

Lecture only. *Prerequisite: Physics 222 and 226.* (5 units)

313. ELECTRODYNAMICS

Derivation and applications of Maxwell's equations. Lecture only. *Prerequisite: Physics 311.* (5 units)

405. INTERMEDIATE CLASSICAL MECHANICS

A continuing and more thorough study of the material introduced in Physics 221 and 225; statics and dynamics including rotational motion of rigid bodies and an introduction to advanced formulations of mechanics. Lecture only. *Prerequisite: Physics 222 and 226 and Mathematics 203.* (5 units)

411. MODERN PHYSICS

Topics of modern physics with an introduction to the concepts of quantum mechanics. Lecture only. *Prerequisites: Physics 222 and 226, 312 and Mathematics 203, each with a grade of C or better.* (5 units)

413. THERMAL AND STATISTICAL PHYSICS

Statistical behavior of systems of large numbers of particles, with applications. Thermostatistics is shown to be derivable from first principles by application of statistical methods. Lecture only. *Prerequisites: Physics 223 and Mathematics 202.* (5 units)

430. ADVANCED PHYSICS LABORATORY

Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. *Prerequisite: Physics 222 and 226.* (2½ units)

440. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS

Papers on various topics are prepared by the students and presented during class sessions. May be repeated once for credit. *Prerequisite: consent of instructor.* (2½ units)

595. INDEPENDENT STUDY

Research in physics conducted under the direction of a faculty member. A total of six units in Physics 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

POLITICAL SCIENCE

Department of Political Science

Administration Building, Room 130

887-7238

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields: American government and politics, comparative politics, political behavior, international relations, political theory, and public policy and administration. Using combinations of these fields, students can tailor-make their study programs by creating tracks such as public policy, legal training or international relations.

In several political science courses students are afforded the opportunity to assume the roles of politicians, bureaucrats and judges in computer-simulated international conflict, in legislative and administrative hearings and in moot court proceedings. Also, they may work as interns in city and county government or in the offices of lawyers and judges, or they may complete independent study projects approved by the department.

Requirements for the Bachelor's Degree

Requirements for the major: a minimum of 50 quarter units in political science including Political Science 200, 203 and 40 upper-division units. The 40 units are distributed among four fields as follows: 10 units from American government and politics (320, 326, 330, 410, 411, 428, 431, 440, and 450); five units from comparative politics (300, 304, and 306); five units from international relations (325, 400, 484, 500, 510, and 590); and five units from political theory (310, 311, 313, and 314). The 15 remaining units may be chosen from any of the political science courses. Political Science 575 and 595 will count as electives only after approval by the department chair. With approval of the department chair, up to 10 units in related fields may be counted toward the upper-division course requirement in political science.

Requirements for a minor in political science: 30 units including Political Science 200 and 203, and at least 20 units of upper-division political science course work chosen in consultation with an advisor.

Requirements for a minor in pre-law: Political Science 328, 410 and 411 plus any two of the following: Administration 330, History 540, Philosophy 465, Political Science 535 and Sociology 359.

Departmental Honors: Students majoring in political science are eligible to receive honors in political science at graduation when they meet the following requirements: 3.5 grade-point average in all political science courses attempted, at least half of all work in political science completed at this college, and recommendation for departmental honors by political science faculty.

Certificate Programs

The Department of Political Science offers certificate programs in international relations and paralegal studies. Details concerning these certificate programs may be found on Pages 98 and 101.

152. CALIFORNIA STATE AND LOCAL GOVERNMENT

California state and local government and politics. This course meets the state code requirement in state and local government. (2½ units)

200. INTRODUCTION TO POLITICAL SCIENCE

Introduction to the scope of the discipline, to its basic philosophical concepts, methods, and to political action in various cultural contexts. (5 units)

203. AMERICAN GOVERNMENT

Political structure and processes of the American governmental system. This course meets the state code requirements in U.S. Constitution, U.S. history and state and local government. (5 units)

300. WESTERN POLITICAL SYSTEMS

Major Western political systems. (5 units)

304. COMMUNIST POLITICAL SYSTEMS

Examination of the relationships among communist political systems. (5 units)

306. DEVELOPING POLITICAL SYSTEMS

Political systems, governmental structures, political orientation and foreign policies of developing nations. (5 units)

310. CLASSICAL POLITICAL THOUGHT

Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius. (5 units)

311. FOUNDATIONS OF MODERN POLITICAL THOUGHT

Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke. (5 units)

313. CONTEMPORARY POLITICAL THOUGHT

Contemporary political ideas and thinkers ranging from Hegel and Marx through Lenin, Gandhi and Mao. (5 units)

314. AMERICAN POLITICAL THOUGHT

American political ideas from the colonial period to the present. This course meets the state code requirement in U.S. history. (5 units)

320. THE LEGISLATIVE PROCESS

Law-making processes in the United States and/or other selected political systems. (5 units)

302 / Political Science

322. POLITICAL DEBATE

Study of a political issue, culminating in a formal debate open to the public. (May be taken for a total of 7½ units of credit as topics change.) *Prerequisite: consent of instructor.* (2½ units)

325. AMERICAN FOREIGN POLICY

Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age. (5 units)

326. POLITICAL PARTIES AND INTEREST GROUPS

Organization, objectives, and activities of political parties and political interest groups and their functions in modern political systems. (5 units)

328. JUDICIAL PROCESS

Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles. (5 units)

330. STATE AND LOCAL POLITICS

Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in state and local government. (5 units)

340. SEX AND POLITICS

Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world. (5 units)

342. THE POLITICS OF ENVIRONMENT

Environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource management, and the political costs and benefits of environmental protection. (5 units)

350. POLITICS OF BLACK AMERICA

Black liberation ideologies and attempts at their implementation within the American political system. (5 units)

351. THE CHICANO AND POLITICS

Political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process. (5 units)

380. SURVEY OF PUBLIC ADMINISTRATION

An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Administration 380. Students may not receive credit for both.) (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of 4 units. No more than four units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: a project proposal must be approved by the department in advance of enrollment.* (Credit to be arranged: 1 or 2 units)

400. INTERNATIONAL POLITICS

Selected theories and evolving patterns of international politics as developed within the nation-state system. (5 units)

410. AMERICAN CONSTITUTIONAL LAW

Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included. This course meets the state code requirement in the U.S. Constitution. (5 units)

411. THE BILL OF RIGHTS

Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed. This course meets the state code requirement in the U.S. Constitution. (5 units)

428. FORMULATION OF PUBLIC POLICY

Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development. (5 units)

431. THE AMERICAN PRESIDENCY

Office and institution of the presidency of the United States. (5 units)

440. VOTING BEHAVIOR

Factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions. (5 units)

450. POLITICAL SOCIALIZATION

Application of political theory and research to the political education and socialization of children. Major attention devoted to the problems of children's political orientations, their sources and formation. (5 units)

484. INTERNATIONAL SECURITY AND DEFENSE STRATEGY

Relation of military strategy and changing arms technology to foreign policy. Consideration of military-diplomatic problems and international relations arising from advanced weapons technology in the nuclear age. (5 units)

500. INTERNATIONAL LAW

Historical basis and present trends in the development of international law. (5 units)

510. INTERNATIONAL ORGANIZATION

History, structure and dynamics of the United Nations and other multi-national organizations. (5 units)

530. STUDIES IN POLITICAL THEORY

Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change. (5 units)

535. SEMINAR IN CONSTITUTIONAL LAW

Intensive study in one or more aspects of constitutional law. *Prerequisite: one of the following: Political Science 328, 410, 411, History 540 or consent of instructor.* (5 units)

560. INTERGOVERNMENTAL RELATIONS

Administrative and political dynamics of relationships among national, state and local units of government. *Prerequisite: senior standing.* (5 units)

570. POLITICS OF THE UNITED STATES ECONOMY

Interaction of political and economic power illustrated through a review of major contemporary issues and activities in national affairs. (5 units)

575. INTERNSHIP IN POLITICAL SCIENCE

Supervised work and study in public and private organizations. May be repeated once for credit. Graded Credit/No Credit. *Prerequisites: consent of instructor and department.* (5 units)

580. SEMINAR IN PUBLIC POLICY

Political aspects of administrative systems with emphasis on public policy process in advanced and less developed countries. (5 units)

304 / Political Science

590. SEMINAR IN INTERNATIONAL RELATIONS

Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit, with consent of instructor. (5 units)

592. SEMINAR IN GOVERNMENT

An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit, with the consent of instructor. (5 units)

595. INDEPENDENT STUDY

Special topics involving library and/or field research. A total of 10 units in Political Science 595 may be applied toward graduation. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

597. SENIOR HONORS THESIS

In-depth research culminating in a written thesis. Written proposals will be invited from seniors with a 3.5 GPA in all political science courses. Enrollment is limited to those students whose proposals are approved by the Political Science Honors Thesis Committee. (5 units)

600. ARMS CONTROL AND NATIONAL SECURITY POLICY

Examination of the theoretical literature on post World War II arms control concepts, doctrines and objectives in relation to national security policy. *Prerequisite: Political Science 484 or equivalent.* (5 units)

601. STRATEGIC SYSTEMS AND STRATEGIC THOUGHT

Evolution of strategic thought, policy, doctrine and force structure relative to national security objectives. *Prerequisite: Political Science 484 or equivalent.* (5 units)

602. ALLIANCE STRATEGY AND REGIONAL SYSTEMS

Key defense-related political and military problems confronting NATO, the Warsaw Pact and other international mutual security systems. *Prerequisite: Political Science 484 or equivalent.* (5 units)

604. SEMINAR IN INTERNATIONAL LAW

Survey of the literature and a study of the Law of the Sea, Aerospace Law, and International Regulation of the use of Force. (5 units)

605. TOPICS IN STRATEGY

Intensive study of a specific phase or area of defense strategy developed by the instructor. May be repeated once for credit as topics change, with consent of student's advisor. (5 units)

PSYCHOLOGY

Department of Psychology

Physical Sciences Building, Room 219

887-7226

The general objectives of the psychology program are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives to the entire student population. The department also offers course work leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find that the undergraduate program provides an excellent base for entry into graduate training. Other majors may plan a paraprofessional career in counseling or related fields where graduate training may not be necessary.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning and perception to such applied courses as counseling and behavior modification. Laboratory and training facilities complement a wide variety of courses.

Requirements for the Bachelor's Degree

Requirements for the major: Psychology 100, 311; one course chosen from 431, 433, 434, 435, 436, 437; either Psychology 210 or Social Sciences 215; and four courses as follows:

- (a) Fields of Psychology (choose two): Psychology 201, 382, 385, 390;
- (b) Basic Processes (choose one): Psychology 360, 362, 363, 364;
- (c) Applications (choose one): Psychology 315, 351, 377, 387, 575.

An additional 15 units in upper-division psychology electives are required. (Psychology 201 may be used to satisfy five of these additional 15 units but does not satisfy the College's upper-division unit requirement.)

Students intending to apply to doctoral programs in psychology are encouraged to take Psychology 498 and 595. Students interested in other educational and career goals have the opportunity to either diversify or concentrate their studies according to individualized plans developed in consultation with a departmental advisor.

Requirements for the minor in psychology: Psychology 100, plus one selection from each of three core requirements:

- (a) Fields of Psychology: Psychology 201, 382, 385, 390;
- (b) Basic Processes: Psychology 360, 362, 363, 364;
- (c) Applications: Psychology 315, 351, 377, 387, 575.

An additional 10 upper-division psychology units are required. (Psychology

201 may be used to satisfy five of these additional 10 units but does not satisfy the College's upper-division unit requirement.)

Departmental Honors. Departmental honors will be awarded upon graduation to students majoring in psychology who have earned a 3.8 or higher grade-point average in all psychology course work. Psychology majors who earn at least a 3.5 grade-point average in upper-division psychology course work may earn consideration for departmental graduation honors by fulfilling one of the following requirements: (1) author, or contribute significantly to the authorship of, an article accepted for publication in a major psychological journal, or (2) score at or above the 90th percentile on the advanced psychology area test of the Graduate Record Examination. Students must initiate the application for honors.

MASTER OF ARTS IN PSYCHOLOGY

The objective of the M.A. in Psychology is to provide depth across a range of basic areas in psychology, enabling the student to prepare for a doctoral program, teach in a community college, or to pursue a future career requiring a non-specialized master's degree in psychology.

Admission to the M.A. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in psychology; or with any other undergraduate major, (i) score at least at the 50th percentile on the GRE advanced test in psychology or (ii) satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. A cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
3. A brief statement describing preparation for graduate study, the goals of graduate study and professional aspirations, to be submitted to the department;
4. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.)

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.

Advancement to Candidacy

To be formally advanced to candidacy, a student must have:

1. Achieved classified status;

2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 10 quarter units of graduate course work at this college, and achieved a minimum grade-point average of 3.0 in these courses;
4. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the associate dean of graduate programs.

Requirements for Graduation

1. A minimum of 45 quarter units of approved graduate-level work, with 32 completed in residence at this College;
2. A grade-point average of at least 3.0 in all courses taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
3. Completion of the following courses: Psychology 569, 570, 571, 601, 603, 605 and 5 units of elective course work in the Department of Psychology at the 500 or 600 level. This requirement may not be met by independent study or directed readings;
4. Completion and defense of an original master's thesis (a two-course sequence, Psychology 611 and 699)
or
completion of an externship (Psychology 689AB). The selected option must be met to the satisfaction and approval of the student's graduate committee.
5. Any additional general requirements not cited above and listed on Pages 84 and 85.

Classified graduate students in the M.A. program must complete their degree requirements within five years of admission to that program. Students in classified status who fail to complete at least one course in the Psychology M.A. program over a period of two successive quarters will automatically be declassified.

MASTER OF SCIENCE IN PSYCHOLOGY

The area of concentration for the M.S. degree program is counseling psychology.

The principal objective of this program is to provide students with practical skills in counseling, through supervised training and experience, and an understanding of relevant subject matter knowledge and research methodology. The program culminates with a thesis or project or comprehensive examination and an internship experience.

Admission to the M.S. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A minimum cumulative undergraduate grade-point average of 2.5;
2. A minimum cumulative undergraduate grade-point average in the major of 3.0;

3. A baccalaureate degree in psychology

or

one of the following two:

- a. A baccalaureate degree in a major other than psychology and achievement of at least at the 50th percentile on the Graduate Record Exam (advanced test in psychology);
 - b. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department graduate admissions committee, to be satisfactory preparation for graduate study in psychology.
4. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master's degree;
 5. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student's scholarly activities.

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 15 quarter units of graduate course work at this college, and achieved a minimum grade-point average of 3.0 in those courses;
4. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the associate dean of graduate programs.

Requirements for Graduation

1. Completed at least 71 quarter units of course work in an approved graduate program with a grade-point average of at least 3.0 and grades of "C" (2.0) or better in all courses in the program;
2. Completed the following courses: Psychology 569 or 570, 4 units of 611; 671, 672, 673, 674ABC, 682, 683; 10 units of Psychology 684, Psychology 687ABC, 697ABC, and one of the following: Psychology 620 or 699 or the comprehensive examination. In addition, five units of elective course work

in the Department of Psychology at the 500 or 600 level is required. This requirement may not be met by independent study courses; (*Note: up to 10 units of Psychology 697ABC may be waived for appropriate work experience.*)

3. Completed and defended an original thesis (Psychology 699) to the satisfaction of the student's graduate committee; or completed a project (Psychology 620) to the satisfaction of the student's graduate committee; or completed a comprehensive examination. Students electing the examination option must complete 10 units of graduate course work in the Department of Psychology at the 500 or 600 level (a maximum of five of these units may be chosen from Psychology 611 or 612; Psychology 575 and 595 are not degree applicable) in lieu of the 10 units which students electing the thesis or project option complete;
4. Received the approval of the student's graduate committee;
5. Any additional general requirements not cited above and listed on Pages 84 and 85.

The comprehensive examination is a four-hour exam designed to be integrative in nature. The examination is offered during the first half of the spring quarter. Students who do not receive a passing grade may elect to: (a) repeat the exam, one additional time only, or (b) complete Psychology 620 or 699. The repeat examination is offered during the first half of the fall quarter. Complete details regarding the examination option are available from the Psychology Department.

Classified graduate students in the M.S. program must complete their degree requirements within five years of admission to that program. Students in classified status who fail to complete at least one course in the Psychology M.S. program over a period of two successive quarters will automatically be declassified.

100. INTRODUCTION TO PSYCHOLOGY

A survey of the field of modern psychology. (5 units)

201. DEVELOPMENTAL PSYCHOLOGY

Introduction to the psychological development of the person. *Prerequisite: Psychology 100.* (5 units)

210. PSYCHOLOGICAL STATISTICS

Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques. Credit may not be received for more than one of the following courses: Administration 210, Psychology 210, Sociology 210 or Social Sciences 215. (5 units)

300. METHODS OF PSYCHOLOGICAL INQUIRY

Introduction to those aspects of philosophy of science and methods of inquiry (introspection, naturalistic observation, case studies, laboratory experiments) as applied to procedures for obtaining and evaluating data in psychology. *Prerequisite: Psychology 100.* (5 units)

311. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY

Design and execution of psychological research. Lecture and laboratory. *Prerequisites: Psychology 100; and one of the following: Psychology 210 or Social Sciences 215.* (6 units)

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315. HELPING PROCESSES

Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication and basic helping skills. Lecture and laboratory. *Prerequisite: Psychology 100.* (5 units)

325. PSYCHOLOGY OF INFANCY

Prenatal, neonatal and infant development. *Prerequisites: Psychology 100 and 201.* (5 units)

329. PSYCHOLOGY OF ADULTHOOD AND AGING

Psychological processes of development during the adult years. *Prerequisites: Psychology 100 and 201, or consent of instructor.* (5 units)

331. THE PSYCHOLOGY OF WOMEN

A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. *Prerequisite: Psychology 100.* (5 units)

332. BIOFEEDBACK

A survey of the biofeedback literature with emphasis on research findings, clinical applications and theory underlying voluntary control of brainwaves, muscle activity, heart rate and other bodily responses. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

333. DRUGS AND BEHAVIOR

Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN

Cognitive and affective development of the individual Black American. Includes survey of research which relates the total psychological functioning of the Black person to culturally distinct developmental patterns. (5 units)

347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

Diverse psychological forces that affect the development of the individual Chicano. Includes survey of research which identifies specific aspects of psychological functioning, especially as psychological development relates to cultural differences. (5 units)

351. BEHAVIOR MODIFICATION: PRINCIPLES AND APPLICATIONS

Analysis of the theory, techniques and ethics of behavior modification. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

355. INDUSTRIAL PSYCHOLOGY

Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

358. COGNITIVE DEVELOPMENT

Survey of the major theories, issues and research in the development of perceptual and cognitive capacities. *Prerequisites: Psychology 100 and 201.* (5 units)

360. COGNITIVE PSYCHOLOGY

Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes. *Prerequisite: Psychology 100.* (5 units)

362. LEARNING AND MOTIVATION

Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles. *Prerequisite: Psychology 100.* (5 units)

363. BIOLOGICAL PSYCHOLOGY

Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory and motivation. *Prerequisite: Psychology 100.* (5 units)

364. PERCEPTION

Selected topics in the field of perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

370. TOPICS IN PSYCHOLOGY

Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as subject matter changes. *Prerequisite: Psychology 100.* (2½ units)

375. SEMINAR IN PSYCHOLOGY

Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as subject matter changes. *Prerequisite: Psychology 100.* (5 units)

377. TESTS AND MEASUREMENTS

Administration of psychological tests and scales; interpretation and use of the data which they yield. *Prerequisites: Psychology 100 and one of the following: Psychology 210 or Social Sciences 215.* (5 units)

382. PSYCHOLOGY OF SOCIAL BEHAVIOR

Major concepts, issues and psychological research regarding social influence on individual behavior. *Prerequisite: Psychology 100.* (5 units)

384. PERSONALITY AND SOCIAL DEVELOPMENT

Development of personality, emotions and social behavior. *Prerequisites: Psychology 100 and 201 or equivalents.* (5 units)

385. PERSONALITY

Survey of the major theories of personality. *Prerequisite: Psychology 100 or consent of instructor.* (5 units)

387. COMMUNITY PSYCHOLOGY

Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs. *Prerequisite: Psychology 100.* (5 units)

389. SPECIAL COMPREHENSIVE EXAMINATION IN PSYCHOLOGY

Independent study, without required classroom meetings, of the subject matter of Psychology 100 and 300. *Prerequisite: consent of instructor.* Units received for previously taken Introductory Psychology will be discounted for students enrolling in Psychology 389. Refer to Page 58 for comprehensive examination limitations. (10 units)

390. ABNORMAL PSYCHOLOGY

An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. *Prerequisite: Psychology 100.* (5 units)

391. PSYCHOPATHOLOGY OF CHILDHOOD

Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment. *Prerequisites: Psychology 100 and 201.* (5 units)

395. PSYCHOLOGY OF CONSCIOUSNESS

Human consciousness from the perspectives of the experiential, behavioral and physiological psychology literatures. Includes survey of research and theory on topics such as waking consciousness, dreams, meditation and altered states of consciousness. *Prerequisite: Psychology 100.* (5 units)

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431. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL

Selected research areas in the field of developmental psychology. Includes review of current literature and experimental techniques in developmental research. Lecture and laboratory. *Prerequisites: Psychology 201; Psychology 311 or consent of instructor.* (6 units)

433. EXPERIMENTAL PSYCHOLOGY: PHYSIOLOGICAL

Introduction to the neural and endocrine processes underlying brain function and behavior. Lecture and laboratory. *Prerequisites: Psychology 311; Psychology 363 or consent of instructor.* (6 units)

434. EXPERIMENTAL PSYCHOLOGY: SOCIAL

Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Lecture and laboratory. *Prerequisites: Psychology 382; Psychology 311 or Sociology 305.* (6 units)

435. EXPERIMENTAL PSYCHOLOGY: PERSONALITY

Empirical study of personality theories and the relationship of personality to behavior. Lecture and laboratory. *Prerequisites: Psychology 311, 377 and 385.* (6 units)

436. EXPERIMENTAL PSYCHOLOGY: LEARNING AND MOTIVATION

Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Lecture and laboratory. *Prerequisites: Psychology 311 and 362.* (6 units)

437. EXPERIMENTAL PSYCHOLOGY: COGNITION AND PERCEPTION

Empirical study of human information processing, memory, thought and perceptual processes. Lecture and laboratory. *Prerequisites: Psychology 311 and either Psychology 360 or 364.* (6 units)

490. COUNSELING PSYCHOLOGY

Basic theories and procedures of psychological counseling. *Prerequisites: Psychology 315 and 385.* (5 units)

498. HISTORY AND SYSTEMS OF PSYCHOLOGY

A senior-level course intended to provide students with a historical framework for integrating basic orientations in contemporary psychology. *Prerequisites: Psychology 311 and senior standing.* (5 units)

569. ADVANCED METHODS IN PSYCHOLOGICAL RESEARCH

Those aspects of philosophy of science and methods of inquiry as applied to procedures for obtaining and evaluating data. *Prerequisites: Psychology 210 or Social Sciences 215 and Psychology 311 or consent of instructor.* (5 units)

570. ADVANCED PSYCHOLOGICAL STATISTICS

Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research. Lecture and 1½ hours of laboratory. *Prerequisite: one of the following: Psychology 210 or Social Sciences 215, or consent of instructor.* (5 units)

571. APPLIED PROBLEM ANALYSIS

Review and use of methodological and statistical strategies in the solution of applied research problems. *Prerequisites: Psychology 569 and Psychology 570 or consent of instructor.* (5 units)

575. INTERNSHIP IN PSYCHOLOGY

Supervised work and study in private or public organizations. May be repeated once for credit. (Only five units of Psychology 575 may be applied to upper-division elective requirements in the psychology major.) Graded Credit/No Credit. *Prerequisites: consent of instructor and department.* (5 units)

578. ADVANCED TOPICS IN PSYCHOLOGY

Selected advanced psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as subject matter changes. *Prerequisites: upper-division or graduate standing and consent of instructor.* (2½ units)

580. ADVANCED SEMINAR IN PSYCHOLOGY

Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as subject matter changes. *Prerequisites: upper-division or graduate standing and consent of instructor.* (5 units)

595. INDEPENDENT STUDY

Special topics involving literature and/or experimental effort. A total of 10 units of Psychology 595 may be applied toward graduation, of which a maximum of five units can be applied toward the upper-division requirements in the psychology major. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 2 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

601. PROSEMINAR IN GENERAL PSYCHOLOGY I

Topical seminar covering major concepts in core areas of psychology. *Prerequisite: classified standing in M.A. program.* (5 units)

603. PROSEMINAR IN GENERAL PSYCHOLOGY II

Continuation of Psychology 601. Intended to be taken in the academic quarter immediately following completion of Psychology 601. *Prerequisite: classified standing in M.A. program.* (5 units)

605. PROSEMINAR IN GENERAL PSYCHOLOGY III

Continuation of Psychology 603. Intended to be taken in the academic quarter immediately following completion of Psychology 603. *Prerequisite: classified standing in M.A. program.* (5 units)

611. ADVANCED INDEPENDENT STUDY

Advanced research on a specific topic selected by the student with the approval of the student's committee. May be repeated up to two times for a maximum of 15 units credit with approval of the student's committee and the department chair. Only five units are required for the master's degree. *Prerequisites: Psychology 569 or Psychology 570; advancement to candidacy.* (Credit to be arranged: 2 to 5 units)

612. DIRECTED READINGS

Special topics involving supervised readings under the direction of a faculty member. *Prerequisites: graduate standing, departmental approval and consent of instructor.* (Credit to be arranged: 2 to 5 units)

620. MASTER'S DEGREE PROJECT

Supervised field work, study and/or research contracted between the student and his/her committee to fulfill the M.S. degree requirement of a culminating experience for the student. *Prerequisites: classified status in the M.S. in Psychology program and satisfactory completion of Psychology 569 or 570 and Psychology 611.* (5 units)

630. TEACHING OF PSYCHOLOGY

Instructional methods for teaching of psychology at the college level. *Prerequisite: classified graduate status in psychology.* (2½ units)

671. COUNSELING PRACTICUM I

Training in development of basic counseling skills. Lecture and laboratory. *Prerequisites: classified status in the M.S. in Psychology program and concurrent enrollment in Psychology 674A and 687A.* (5 units)

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672. COUNSELING PRACTICUM II

Training in counseling use and application of behavior modification skills. Lecture and laboratory. *Prerequisites: grade of no less than B — in Psychology 671 and concurrent enrollment in Psychology 674B and 687B.* (5 units)

673. COUNSELING PRACTICUM III

Training in advanced counseling skills. Lecture and laboratory. *Prerequisites: grade of no less than B — in Psychology 672 and concurrent enrollment in Psychology 674C and 687C.* (5 units)

674. GROUP PSYCHOTHERAPY

Group experience for enhancement of self-awareness and professional growth. Graded credit/no credit. *Corequisites: Psychology 671, 672 or 673 and Psychology 687A, 687B or 687C.*

A. (2 units)

B. (2 units)

C. (2 units)

682. ADULT ASSESSMENT

Training in methods of intellectual, vocational and personality assessment with adults. *Prerequisite: classified status in M.S. in Psychology program.* (5 units)

683. CHILD ASSESSMENT

Training in methods of intellectual and personality assessment with children. *Prerequisite: classified status in M.S. in Psychology program.* (5 units)

684. TOPICS IN COUNSELING PSYCHOLOGY

Selected topics within counseling psychology. May be repeated for credit as topic changes. *Prerequisites: Psychology 671, 672 and 673.* (5 units)

687. INDEPENDENT CONSULTATION IN COUNSELING SKILLS

Individual consultation with staff concerning counseling skills development. *Corequisite: concurrent enrollment in Psychology 671, 672 or 673.*

A. (2 units)

B. (2 units)

C. (2 units)

689. EXTERNSHIP IN APPLIED PSYCHOLOGY

Supervised field work in a private or public setting for additional applied training and extension of skills developed in the graduate program. Students must complete Psychology 689A and Psychology 689B before credit can be granted for either. Psychology 689A must be taken before Psychology 689B. *Prerequisites: advancement to candidacy and Psychology 569.*

A. (5 units)

B. (5 units)

697. INTERNSHIP IN COUNSELING PSYCHOLOGY

Supervised counseling fieldwork in private or public mental health agencies. Designed to be taken three times (year long) for maximum 15 units of credit. Graded credit/no credit. *Prerequisites: classified status in the M.S. in Psychology program; Psychology 671, 672, 674A, 674B, 674C, 687A, 687B, 687C; and a grade of A or B in Psychology 673.*

A. (5 units)

B. (5 units)

C. (5 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of department.* (0 units)

699. THESIS

Prerequisites: Psychology 569 and/or 570; Psychology 611; advancement to candidacy. (5 units)

SOCIAL SCIENCES

*School of Social and Behavioral Sciences
Administration Building, Room 124
887-7221*

The social sciences major has two tracks. Track A is designed for students who intend to use their social sciences major to waive the required state examination for the single subject teaching credential. Track B is designed for those students who wish to blend any three of the disciplines represented in the School of Social and Behavioral Sciences.

Requirements for the Bachelor's Degree

Requirements for the major:

Track A

Lower-division core:

1. Economics 104. Introduction to Economics
or
Economics 200. Principles of Microeconomics
2. Geography 100. Introduction to Human Geography
or
Social Sciences 165. Regions and Peoples of the World
3. Political Science 203. American Government
4. Five units chosen from the following:
Psychology 100. Introduction to Psychology
Anthropology 100. Introduction to Anthropology: Human Evolution
Anthropology 102. Introduction to Anthropology: Culture and Society
Sociology 100. The Study of Society
Social Sciences 160. Contemporary Civilization: Values and Behavior
5. Social Sciences 142. World Civilizations II, The Civilizations of the East and West
or
Social Sciences 144. World Civilizations III, The Expansion of Europe
6. Social Sciences 146. American Civilization

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Upper-division core:

POLITICAL SCIENCE 410. AMERICAN CONSTITUTIONAL LAW

POLITICAL SCIENCE 411. THE BILL OF RIGHTS

Plus 15 units chosen from:

HISTORY 334. BLACK HISTORY II: THE AMERICAN EXPERIENCE

HISTORY 350. THE AMERICAN COLONIES, 1607–1783

HISTORY 351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783–1840

HISTORY 354. CIVIL WAR AND RECONSTRUCTION

HISTORY 356. THE UNITED STATES, 1877–1917

HISTORY 357. THE UNITED STATES, 1917–1945

HISTORY 359. THE UNITED STATES SINCE 1945

HISTORY 391. CHICANO HISTORY

HISTORY 421. ECONOMIC HISTORY OF THE UNITED STATES

HISTORY 513. WOMEN IN UNITED STATES HISTORY

HISTORY 540. CONSTITUTIONAL HISTORY OF THE UNITED STATES

HISTORY 556. FOREIGN RELATIONS OF THE UNITED STATES

HISTORY 560. HISTORY OF THE AMERICAN WEST

HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

Plus 5 units chosen from:

POLITICAL SCIENCE 320. THE LEGISLATIVE PROCESS

POLITICAL SCIENCE 326. POLITICAL PARTIES AND INTEREST GROUPS

POLITICAL SCIENCE 330. STATE AND LOCAL POLITICS

POLITICAL SCIENCE 428. FORMULATION OF PUBLIC POLICY

POLITICAL SCIENCE 431. THE AMERICAN PRESIDENCY

Plus 15 units of upper-division course work, to be selected from a list of appropriate courses stipulated by the Departments of Psychology, Sociology, Criminal Justice, Anthropology, Geography and Economics. This list will be on file in the school office and in the various departmental offices in the school. All 15 units need not be taken from the offerings of a single department.

Track B

A minimum of 35/36 units (primary) in one of the following fields, plus 20 units each (secondary) in two others: anthropology, criminal justice, economics, geography, history, political science, psychology and sociology.

Of the 35/36 units comprising the primary field, no more than 15 units may be from the lower division. In each secondary field, no more than 10 units may be from the lower division.

Within the social sciences major, cross-listed courses cannot be counted both in a primary field and in a secondary field.

Those courses which will be required and allowed for use in this track, both in the primary and secondary fields, are listed below. It is the responsibility of both the student and the student's advisor to construct a program in line with these requirements. Once agreed to, the program is filed in the student's permanent folder in the Admissions Office but is subject to revision by mutual consent. No more than 40 units may be selected from any one department. No more than one 15-unit special comprehensive examination may be applied to any field, either primary or secondary, and not more than two of these examinations may be used to meet the requirements of this major.

An ethnic studies secondary field may be obtained by taking Social Sciences 155 (Minority Groups in America) and 15 units of upper-division ethnic studies course work from within the School of Social and Behavioral Sciences. No course may be used in a secondary field which has been used in any other part of the social sciences major.

A computer science secondary field may be obtained by taking Computer Science 120 (Introduction to Computing), Computer Science 140 (Introduction to FORTRAN Programming), Computer Science 310 (Computer System Organization I) and Social Sciences 530 (Statistical Programs for Social Scientists). Students selecting this secondary field are required to take a statistics course as a prerequisite for Social Sciences 530. This statistics course may count toward one of the other fields in the social sciences major.

A special topics secondary field may be contracted with the dean of the School of Social and Behavioral Sciences. Possible topics that may be arranged under this option include, but are not restricted to, women's studies and Latin American studies. For more information concerning this option, contact the dean of the School of Social and Behavioral Sciences.

Departmental requirements for Track B of the social sciences major:

ANTHROPOLOGY:

Primary field: (35 units)

Anthropology 100, Anthropology 102, 15 units chosen from

Anthropology 300-390, 10 units chosen from Anthropology 456-595.

Secondary field: (20 units)

Anthropology 100 or Anthropology 102; plus 10 units chosen from

Anthropology 300-390 and five units chosen from Anthropology 456-595.

CRIMINAL JUSTICE:

Primary field: (36 units)

Criminal Justice 101, 102, 308, 15 units chosen from

Criminal Justice 350, 357, 358, 359, 5 units from

Criminal Justice 103, 450, 575, 300 A and D, or 300 B and C.

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Secondary field: (20 units)

Criminal Justice 101, 102, plus 10 units chosen from
Criminal Justice 357, 358, 359, 300 A and D, or 300 B and C.

ECONOMICS:

Primary field: (35 units)

Economics 200, Economics 202, Economics 300, Economics 302, five units of 300-level economics course work and 10 units of 400- or 500-level economics course work.

Secondary field: (20 units)

Economics 200, Economics 202, 10 units of upper-division economics course work.

GEOGRAPHY:

Primary field: (35 units)

Geography 100, Geography 103, Geography 420, 20 units of upper-division geography course work. However, no more than 10 of these 20 units of upper-division elective course work can be an area study.

Secondary field: (20 units)

Geography 100 or Geography 103, Geography 420 and 10 units of upper-division geography course work. However, only five of these 10 units of upper-division elective course work can be an area study.

HISTORY:

Primary field: (35 units)

History 200, History 201, History 300, History 301, or equivalents as described in the history major requirements, Page 244, and 15 units of upper-division history electives.

Secondary field: (20 units)

History 200 and History 201, or History 300 and 301, or equivalents as described in the history major requirements, Page 244, and 10 units of upper-division history electives.

POLITICAL SCIENCE:

Primary field: (35 units)

Political Science 200, Political Science 203, and 25 units of upper-division course work with at least five units from each of the following fields: American government and politics, comparative politics, international relations, political theory.

Secondary field: (20 units)

Political Science 200 and five units of upper-division course work from each of three of the four fields listed above.

PSYCHOLOGY:

Primary field: (35 units)

Psychology 100, 210; 10 units chosen from 201, 382, 385, 390; five units chosen from 360, 362, 363, 364; five units chosen from 315, 351, 377, 387, 575; and five units of upper-division psychology electives.

Secondary field: (20 units)

Psychology 100; five units chosen from 201, 382, 385, 390; five units chosen from 360, 362, 363, 364; five units chosen from 315, 351, 377, 387.

SOCIOLOGY:

Primary field: (36 units)

Sociology 100 and Sociology 308; five units chosen from 310, 312, 360; 20 units of upper-division sociology electives.

Secondary field: (20 units)

Sociology 100; one of the three following: Sociology 310, Sociology 312 or Sociology 360; 10 units of upper-division sociology electives.

Many of the courses listed below are offered as part of the College's general education program. Some are offered in support of other degree programs.

140. WORLD CIVILIZATIONS I, THE RISE OF CIVILIZATION

Activities of man from the beginning through the rise and diffusion of civilization in the era of Middle Eastern dominance to about 500 B.C. (5 units)

142. WORLD CIVILIZATIONS II, THE CIVILIZATIONS OF THE EAST AND WEST

Major civilizations of the past, including the Graeco-Roman world, ancient India and China, the Byzantine and Arabic Empires, and Europe in the Middle Ages. (5 units)

144. WORLD CIVILIZATIONS III, THE EXPANSION OF EUROPE

Rise to dominance of the European states and their impact throughout the world, 1500 A.D. to the present. (5 units)

146. AMERICAN CIVILIZATION

Historical development of the fundamental values of the American culture and the influences of these in selected areas of American life. This course meets the state code requirements in the U.S. Constitution and in U.S. history. (5 units)

151. GREAT IDEAS OF POLITICS AND ECONOMICS

Political and economic ideas which have shaped American society. (5 units)

155. MINORITY GROUPS IN AMERICA

Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences. (5 units)

160. CONTEMPORARY CIVILIZATION: VALUES AND BEHAVIOR

Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology and psychology. (5 units)

165. REGIONS AND PEOPLES OF THE WORLD

Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments. (5 units)

215. STATISTICS FOR THE SOCIAL SCIENCES

Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. A self-paced independent study course. Credit may not be received for more than one of the following courses: Administration 210, Psychology 210, Sociology 210 or Social Sciences 215. *Prerequisite: Mathematics 110 or equivalent competency.* (5 units)

300. NONWESTERN WORLD

Historical, political, social, geographic and economic aspects of nonwestern societies. (5 units)

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304. CONTEMPORARY LATIN AMERICA

Social, economic and political conditions and institutions in contemporary Latin America. (5 units)

315. CULTURAL ADAPTATION: THE QUEST FOR SURVIVAL

An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs. (5 units)

321. URBANIZATION AND THE URBAN ENVIRONMENT

Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems. (5 units)

333. SANITY AND CIVILIZATION

Effects of the social, political and economic institutions of past and contemporary civilizations on definitions of sanity and insanity, and the impact of such definitions on the quality of life. (5 units)

343. UNDERSTANDING SOCIALISM

Description and analysis of socialism: social, economic, political and historical issues. (5 units)

345. RELIGIOUS EXPRESSION IN AMERICA

Interdisciplinary social science analysis of the relationship among religious beliefs, religious practices and secular society in American culture. (5 units)

495. EXPOSITORY WRITING FOR THE SOCIAL SCIENCES

Writing related to the social sciences including documented research reports, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. No more than one of the Expository Writing courses (Administration 495, English 495, Humanities 495, Natural Sciences 495, Social Sciences 495) may be taken for credit. Graded A,B,C/No Credit. *Prerequisites: English 101 and a minimum of 90 quarter (60 semester) units of college credit.* (5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF THE SOCIAL SCIENCES

May not be counted toward fulfilling requirements of courses in the majors offered by the School of Social and Behavioral Sciences. *Prerequisites: Education 330, senior or graduate standing and admission to the single subject credential program.* (5 units)

530. STATISTICAL PROGRAMS FOR SOCIAL SCIENTISTS

Computer programs in statistics for social scientists, with an emphasis on SPSS (Statistical Package for the Social Sciences) and on BMD (Biomedical Computer Programs). *Prerequisite: one of the following: Psychology 210, Administration 210, Social Sciences 215, or Mathematics 350.* (5 units)

SOCIOLOGY

Department of Sociology
Administration Building, Room 183
 887-7224

The sociology major offers a balanced program of study for students interested in pursuing graduate study or in the practical application of sociology. The curriculum is designed to expose the student to the scope and methods of sociology and to provide a broad educational background for understanding the structure and functioning of modern society.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general sociology majors, students in criminal justice and students in social work actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5 GPA and to seniors and graduate students with a 3.0 GPA.

Requirements for the Bachelor's Degree

Requirements for the major: a core consisting of Sociology 100, 308, 310, 312, and 360. Also required are 30 additional quarter units in sociology, 25 of which must be upper division. With the consent of the department advisor, 10 upper-division units in related fields may be substituted for course requirements in the major. By the end of their junior year, all sociology majors must complete Sociology 308. It is strongly recommended that students take this course as soon as possible after declaring their major. Students with strong interests in sociological research or who intend to pursue advanced degrees in sociology should also take Sociology 408, in addition to 308.

For students interested in pursuing a career in social work, the department advises an alternative program incorporating the core courses as noted above plus Sociology 434, 436, 484 and 15 additional quarter units in sociology. It is recommended that Sociology 318 be included. Students should begin planning for such a program with the coordinator of social work before starting their junior year.

Offered within the sociology major is a program in ethnic studies, with an emphasis in Black studies or Mexican-American studies. In addition to the required core courses for the sociology major, the ethnic studies option requires 20 quarter units in either Black studies or Mexican-American studies, at least 10 units of which must be in sociology. (These 20 units of ethnic studies count as 20 of the required upper-division elective units for the sociology major.) An additional 10 quarter units in upper-division sociology are also required.

Students are free to construct individual programs through their choice of electives, or electives may be chosen to correspond to some of the recognized sub-divisions of sociology: social problems (200, 322, 330, 344, 346, 352, 354, 355, 356, 410, 420, 434, 441); social psychology (339, 344, 346, 354, 356, 363, 366, 435); criminology (350, 352, 354, 357, 358, 359); urban sociology (322, 364, 410, 420, 430, 432, 438, 440, 441); social organization (340, 368, 369, 380, 400, 401, 420, 432, 438, 440); sociological methods and theory (363, 400, 401, 408, 432, 440, 590); social work (318, 434, 436, 473, 480, 484); and ethnic studies (322, 340, 341, 342, 410, 440, 441, 442).

Requirements for the minor: 30 quarter units in sociology selected with the consent of a departmental advisor. Ten of these may be at the lower-division level.

Departmental Honors: Students majoring in sociology are eligible to receive honors in sociology at graduation if they have met the following: 3.5 GPA in all sociology courses attempted, at least half of all work attempted in sociology completed at this college, and recommendation for departmental honors by the sociology faculty.

Master of Arts

The College offers a Master of Arts in Criminal Justice. Details on this graduate program may be secured from the chair of the Criminal Justice Department.

Certificate Programs

The Department of Sociology offers certificate programs in applied gerontology and in social work. Details concerning these programs are found on Pages 97 and 103.

100. THE STUDY OF SOCIETY

Survey of the basic characteristics and dynamics of society and culture from the sociological perspective. (5 units)

103. CRITICAL ISSUES IN CRIMINAL JUSTICE

Contemporary problem areas in the criminal justice system, including issues in evidence, arrest and detention, search and seizure, the ideology of crime control and criminal justice reform and specific areas of crime (organized crime, political crime). (Students may not receive credit for both Sociology 103 and Criminal Justice 103.) (5 units)

200. SOCIAL PROBLEMS

Social problems in modern industrial societies. Discussion of sociological research and theoretical propositions dealing with such problems as drug addiction, mental illness, war, abortion and sexual perversions. (5 units)

Prerequisite for upper-division courses is Sociology 100, or consent of instructor.

308. INTRODUCTION TO SOCIOLOGICAL RESEARCH

Basic ideas and techniques used by sociologists in conducting research such as participant observation and case studies, surveys of public opinion and attitudes and experiments with small groups. Lecture and six hours of laboratory. (Students may not receive credit for both Criminal Justice 308 and Sociology 308.) *Prerequisite: Mathematics 100 or 110 or consent of instructor.* (6 units)

310. HISTORY OF SOCIOLOGICAL THEORY

Historical development of classical sociological theory. (5 units)

312. CONTEMPORARY SOCIOLOGICAL THEORY

Contemporary sociological theory, including an examination of origins, trends, schools and areas of controversy. *Prerequisite: Sociology 310.* (5 units)

318. SOCIAL WELFARE POLICIES AND SERVICES

Survey and analysis of welfare as a complex of societally established income maintenance and social service programs. (5 units)

322. SOCIOLOGY OF THE GHETTO

Existing theories relating to ghetto life styles; the relationship of these to American society as a whole. (5 units)

330. SOCIAL GERONTOLOGY

Age-status and age-roles in American society, with cross-cultural comparisons including intergenerational conflict and other age-related behaviors. (5 units)

339. SOCIALIZATION

Theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis on organized social roles as they are mediated through the norms and patterned interactions of institutions; that is, the family, peer groups and the schools. (5 units)

340. SOCIOLOGY OF THE FAMILY

A systematic and comparative analysis of family structure and change: marriage, reproduction, child-rearing, marital problems. (5 units)

341. MARRIAGE AND FAMILY AMONG BLACKS

Forces affecting the Black family, with emphasis on the roles assigned to individual members. (5 units)

342. THE CHICANO FAMILY

Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective. (5 units)

344. SEX ROLES: THE LIFE CYCLE

An examination of the social roles of men and women in contemporary American society from a life-cycle perspective. Class and racial/ethnic variations in sex-role socialization are emphasized. (5 units)

346. SEX ROLES: INEQUALITY

Cross-cultural analysis of systems of sex inequality, emphasizing the maintenance of and changes in these systems. (5 units)

350. CRIMINOLOGY

Causes of crime with emphasis on sociological factors. (Students may not receive credit for both Criminal Justice 350 and Sociology 350.) (5 units)

352. JUVENILE OFFENDER

Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation. (5 units)

354. DEVIANT BEHAVIOR

Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation. (5 units)

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355. MEDICAL SOCIOLOGY

Patient's self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages in the "sick role" in contemporary society are emphasized. (5 units)

356. SOCIOLOGY OF MENTAL ILLNESS

Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories. (5 units)

357. SOCIOLOGY OF LAW ENFORCEMENT

Sociological analysis of law enforcement systems and the police role, consideration of police discretion and differential implementation of the criminal law, problems affecting crime control and the interdependence of police and community. (Students may not receive credit for both Criminal Justice 357 and Sociology 357.) (5 units)

358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers. (Students may not receive credit for both Criminal Justice 358 and Sociology 358.) (5 units)

359. LAW AND SOCIETY

Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice. (Students may not receive credit for both Criminal Justice 359 and Sociology 359.) (5 units)

360. SOCIAL PSYCHOLOGY

The study of social interaction as it influences the development of self, role behavior, attitudes and values. Emphasis on symbolic interaction as a school of thought. (5 units)

363. SOCIOLOGY OF COMMUNICATION

Symbolic and organizational aspects of human communication systems including linguistic and non-linguistic means of communicating. Special attention will be devoted to attitudes and beliefs as influenced by interpersonal interaction and the mass media. (5 units)

364. PUBLIC OPINION AND PROPAGANDA

Nature and bases of public opinion; the social context of propaganda, its bases, its social psychological functions and the techniques of propagandists. (5 units)

366. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS

Social psychological bases of crowd behavior, rumor, panic, riots, disasters and social movements; with a special emphasis on social movements. (5 units)

368. SOCIOLOGY OF WORK AND THE PROFESSIONS

Development of occupational roles, with emphasis on specialization and mobility; impact of occupations on social institutions; special focus on the development of the professions. (5 units)

369. MILITARY SOCIOLOGY

Interrelationships between the civilian and military sector.

A. Comparative Military Sociology (2½ units)

B. American Military Sociology (2½ units)

370. SOCIOLOGY OF POPULAR CULTURE

Sociological study of leisure and popular culture, including sports and mass media. Analysis of the relationships among popular culture, social structure and social change. (5 units)

380. SOCIOLOGY OF RELIGION

Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change. (5 units)

388. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY CORE CURRICULUM

Independent study, without required classroom meetings, of the subject matter appropriate to three courses required for the major: Sociology 310, 312 and 400. *Prerequisite: consent of instructor.* Refer to Page 58 for comprehensive examination limitations. (15 units)

400. SOCIAL CHANGE

Sources of change in societies; theories of social change, social conflict and the interpretation of social trends; social change and related problems in less-developed countries; processes and problems of planned change. (5 units)

401. SOCIAL ORGANIZATION

Concepts and theories for analysis of social systems, for example, family, work group, community and bureaucracy; structural features of social systems, their interdependence and the relationship of the individual to social systems. (5 units)

408. INTERMEDIATE SOCIOLOGICAL RESEARCH

Advanced modes of sociological inquiry including attitude scale construction, the integrated use and application of appropriate descriptive and inferential measures that apply to different research problems and strategies. Lecture and three hours of laboratory. *Prerequisite: Sociology 308 or consent of instructor.* (5 units)

410. RACIAL AND CULTURAL MINORITIES

Minority group status in contemporary American society. (5 units)

420. POPULATION AND SOCIAL ECOLOGY

Social causes and consequences of population growth, decline and relocation. (5 units)

430. URBAN SOCIOLOGY

Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations. (5 units)

432. POLITICAL SOCIOLOGY

Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. (5 units)

434. COMMUNITY ORGANIZATION

Programs of action, operative and proposed, for the organization of the community and the solution of its problems. (5 units)

435. THE SOCIOLOGY OF SMALL GROUPS

Sociological analysis of the structure and processes of small groups, including the analysis of roles, interpersonal relations, group characteristics, and intergroup relations; includes the application of small group theory with the class. *Prerequisite: consent of instructor.* (5 units)

436. GROUP DYNAMICS

Dynamics of primary group relationships, including psychotherapy groups. (5 units)

438. INDUSTRIAL SOCIOLOGY

Human relations in industry, both formal and informal, with special attention to problems of morale, productivity, decision-making and bureaucratic structure. (5 units)

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440. POWER AND PRIVILEGE

Class, caste and other systems of social stratification with particular reference to the United States. (5 units)

441. BLACK SOCIAL STRATIFICATION

Caste in America, comparison of Black and white stratification, Black social mobility. (5 units)

442. CHICANO SOCIAL STRATIFICATION

Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities. (5 units)

450. WHITE COLLAR CRIME

Study of America's most costly form of crime and deviance. History, causes, consequences, prevention and explanations of economic crime and abuse of power in the corporate and business world, the professions, trades, the unions and government. (Students may not receive credit for both Sociology 450 and Criminal Justice 450.) (5 units)

473. INTERVIEWING IN SOCIAL WORK

Basic interviewing methodology and techniques utilized by social workers in communicating with people who are experiencing adjustment problems. (5 units)

480. HUMAN GROWTH AND SOCIAL ENVIRONMENT

Consideration of the interplay of physiological, social and environmental factors in relation to individual growth and behavior. (5 units)

484. SOCIAL CASEWORK

Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning. (5 units)

488. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY ELECTIVES

Independent study, without required classroom meetings, of the subject matter appropriate to these three elective courses: Sociology 363, 364 and 366. *Prerequisite: consent of instructor.* Refer to Page 58 for comprehensive examination limitation. (15 units)

530. ADVANCED SEMINAR IN THE SOCIOLOGY OF AGING

Sociological analysis of the aged and their relationship to major institutions and the processes of social organization. *Prerequisite: Sociology 330 or consent of instructor.* (5 units)

555. INDEPENDENT STUDY

Special topics involving library and/or field research. A total of 10 units in Sociology 555 may be applied toward graduation. *Prerequisites: senior or graduate standing, a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (5 units)

575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. *Prerequisites: consent of instructor and department.* (5 units)

590. SEMINAR IN SOCIOLOGY

An intensive study of some phase of sociology to be developed by the instructor with the class. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (5 units)

SPANISH

*Department of Foreign Languages
Pfau Library Building, Room 276
887-7445*

Requirements for the Bachelor's Degree

Requirements for the major: proficiency in Spanish equal to that of Spanish 103 or its equivalent*; Spanish 202, 204, 301, 302; 10 units of Spanish 400; 10 units of Spanish 514; five units chosen from Spanish 312, 314, or 316; and 10 units chosen from any other upper-division Spanish course in language, culture, civilization and literature (including Spanish 450 or Foreign Languages 450 when the topic deals with any Hispanic literature).

Requirements for the minor: proficiency in Spanish equal to that of Spanish 103 or its equivalent*, and twenty additional units in Spanish, ten of which must be at the upper-division level.

Certificate Program

The Department of Foreign Languages and Literatures offers a certificate program in Spanish for Public Services. Details concerning this program are found on Page 103.

Spanish majors are encouraged to broaden the scope of their studies by using some of their electives to take courses in French or German. Many students may desire to use their electives to prepare a minor or a second major. The department encourages such a program and is prepared to help each student plan.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

80. PREPARATION FOR COLLEGE SPANISH

Preparation in pronunciation, structure and reading. Units awarded for Spanish 80 are not applicable to a baccalaureate degree. Graded A, B, C/No Credit. (5 units)

101. COLLEGE SPANISH I

Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. (5 units)

102. COLLEGE SPANISH II

Continuation of Spanish 101. (5 units)

103. COLLEGE SPANISH III

Continuation of Spanish 101 and 102 stressing conversation and acquisition of reading skills. (5 units)

** Entering students with previous training in Spanish, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.*

328 / Spanish

133. PRACTICAL SPANISH FOR PROFESSIONALS AND TRAVELERS

Fundamentals of Spanish with emphasis on vocabulary used in the medical, teaching, law enforcement and social welfare professions or in traveling. May be repeated for a maximum of 10 units of credit. May not be counted toward fulfilling requirements in the Spanish major. (5 units)

202. GRAMMAR AND COMPOSITION

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition. *Prerequisite: Spanish 103 or equivalent.* (5 units)

204. INTRODUCTION TO LITERARY TEXTS

Techniques of literary study and analysis. Vocabulary development. *Prerequisite: Spanish 103 or equivalent.* (5 units)

206. CONVERSATION

Practice of oral Spanish stressing the discussion of current topics. Panel discussions, debates, short talks, skits. May be repeated for a maximum of five units of credit. May not be counted toward fulfilling requirements in the Spanish major. *Prerequisite: Spanish 103.* (2½ units)

Ordinarily, upper-division courses are conducted in Spanish. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. PRACTICAL PHONETICS

In-depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. *Prerequisite: Spanish 202 or 204 or equivalent.* (5 units)

302. THEORY AND PRACTICE IN COMPOSITION

Extensive practice in composition and style. May be repeated for credit. *Prerequisite: Spanish 202 or 204 or equivalent.* (5 units)

312. TECHNIQUES FOR PROFESSIONAL INTERPRETING AND TRANSLATING IN SPANISH

Oral and written practice and methods of translation from Spanish to English and English to Spanish with application to public service activities. *Prerequisite: Spanish 302.* (5 units)

314. ADVANCED CONVERSATION

Intensive practice of oral Spanish leading to fluency, to the development of a comprehensive, practical vocabulary and to public speaking skills. *Prerequisite: Spanish 302.* (5 units)

316. SPANISH IN COMMUNICATION MEDIA

Oral and written practice in terminology and vocabulary used in business, law, science, technology, television and radio. *Prerequisite: Spanish 302.* (5 units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

400. MASTERPIECES IN SPANISH AND SPANISH AMERICAN LITERATURE

Reading and discussion of selected masterworks of Spanish and Spanish American literature. May be repeated as topics change. *Prerequisite: Spanish 204.* (5 units)

415. COMPARATIVE LINGUISTICS: SPANISH/ENGLISH

Application of modern linguistic theory to the problems of second language acquisition in the areas of phonology, morphology and syntax. Emphasis will be given to analysis of the subsystems of English and Spanish. Includes classroom applications. *Prerequisite: Spanish 301 or consent of instructor.* (5 units)

440. MEXICAN LITERATURE

Survey of the development of Mexican literature from 1520 to the present. *Prerequisite: Spanish 204 or equivalent.* (5 units)

450. MEXICAN LITERATURE IN TRANSLATION

Critical examination of selected works of Mexican literature. Emphasis on the novel, drama, poetry and the essay. May not be taken for credit by students who have received credit for Foreign Languages 450, Literature in Translation: Mexico. (5 units)

514. SEMINAR IN HISPANIC LANGUAGE, LITERATURE OR CIVILIZATION

Advanced study of a single author, a literary movement, linguistics or civilization. May be repeated as topics change. *Prerequisite: one 400-level Spanish course.* (5 units)

SPECIAL MAJOR

Undergraduate Program

Office of Academic Programs

Administration Building, Room 194

887-7521

Graduate Program

Office of Associate Dean, Graduate Programs

Administration Building, Room 182

887-7755

Occasionally, students with special educational or professional objectives may find that the existing degree programs offered at the College are inadequate to their needs and that a carefully structured, interdisciplinary program of study is more appropriate. The special major, through which students design their own program of study drawn from the regular offerings of two or more departments, is intended to meet this need.

In order to be considered for admission to the special major program, a student must select a full-time faculty member to serve as academic adviser and must develop a program of study to be submitted for approval on forms available through the Office of Academic Programs. Once the program of study is approved by the College Committee on Curriculum and Instruction and by the Office of Academic Programs, the student is admitted to the program.

Requirements for the Bachelor's Degree

In addition, the following limitations and regulations apply:

1. To be admitted to the special major program, the student must have more than one full year of academic work (45 quarter units) remaining to complete the minimum requirements for a bachelor's degree.

2. The plan of study must include at least 40 quarter units of upper-division work.

3. No courses that are applied to the general education requirements of the College are applicable toward the minimum requirements of the special major.

4. The special major may not be used as a second major or as a second bachelor's degree.

5. The special major cannot be used to substitute for a degree program offered elsewhere in the California State University which this College is not authorized to offer. It cannot be used to bypass normal graduation requirements, nor can it serve as an alternative to completion of degree requirements for a major in which the student is in academic difficulty.

6. If any independent study courses are included in the program, students must meet the College requirements for such courses at the time they submit their application for a special major.

7. No more than 10 units of Independent Study may be applied to the special major.

MASTER OF ARTS IN SPECIAL MAJOR

Occasionally a student wishes to combine unusual undergraduate training with special interests or career goals not met by existing programs. For this student, the Special M.A. offers the chance to create an interdisciplinary master's degree combining two or more disciplines and focusing on a clearly defined nontraditional area of study. Each Special M.A. program is individually designed by the student and his or her faculty advisors.

Possible Special M.A. programs might draw on and combine existing courses and faculty expertise from a number of fields. Many programs are career oriented; some, however, reflect the student's interest in creative or intellectual expression.

Special M.A. programs have included:

National Security Studies, a professionally oriented program to meet the needs of established and aspiring career personnel in the civil/military and defense/industrial community, combines political science, history and military science studies;

Health Services Administration, which combined the disciplines of health science, administration and education into an applied professional program.

Other professional and creative programs have included:

Social Gerontology (sociology, psychology, administration)

Images of Women in Culture (art, literature, anthropology)

The Use of Media for Art Productions (education, art).

This individualized master's degree is designed to be a highly challenging academic program for the self-motivated student who has a clear perception of objectives and a background which will allow advanced study in the disciplines combined in the program. The Special M.A. is designed to prepare students for nontraditional fields requiring graduate-level interdisciplinary expertise. It is not a replacement for existing degree programs but an enrichment of the College's offerings.

This program is designed by the student in consultation with the associate dean of graduate programs and three faculty members. The three faculty members then comprise the student's faculty committee. The faculty committee members are usually selected from more than one academic discipline.

Admission to the M.A. Program

In addition to the general requirements of the College, specific requirements for admission to classified graduate status are:

1. A cumulative undergraduate GPA of at least 2.5 overall and at least 3.0 in the major;
2. A three-member faculty committee, the chair of which serves as primary advisor, to supervise the course of study;
3. A Special M.A. proposal submitted, on forms available from the Office of

the Associate Dean of Graduate Programs, to the College Committee on Graduate Education; the program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus;

4. Approval of the program proposal by the Committee on Graduate Education.

If approval is recommended by the Committee on Graduate Education, the student is formally admitted into the program in either conditionally classified or classified status.

Requirements for the Special Major M.A. Degree

1. The program of study must be interdisciplinary, including course work from at least two disciplines represented at the College;
2. The program of study must include a minimum of 45 quarter units of course work, no fewer than 25 of which must be in 600-level courses;
3. The program of study must not include more than 20 units of independent study course work (including thesis and/or project research);
4. The program must include a synthesizing experience (comprehensive examination, project or thesis). Students may register for no more than nine units of thesis or project credit;
5. A GPA of 3.0 (B) must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of C (2.0) or better in all courses in the program. Grades of C— (1.7) or less cannot be used toward the degree;
6. In addition to the program requirements listed above, students must satisfy the upper-division writing requirement prior to advancement to candidacy;
7. When students have completed between 15 and 23 units of course work on an approved study plan, it will be necessary for them to submit a formal letter requesting advancement to candidacy to the Office of the Associate Dean of Graduate Programs;
8. Any additional general requirements not cited above and listed on Pages 84 and 85.

THEATRE ARTS

*Department of Theatre Arts
Creative Arts Building, Room 175
887-7452*

Fun and hard work characterize the life of the theatre arts student. A student's interest may be oriented toward career goals or toward avocational goals. The curriculum and productions provide a broad base for both by exploring every phase of those arts. Many opportunities exist for working in student productions of varying forms.

These experiences in the theatre arts are available to nonmajors as well as majors. Plays are cast from enrolled students except for an occasional resident artist.

Classes are designed to afford optimum individual attention. Professors in the department do not hesitate to present differing points of view, which encourages students to develop their skills to think independently and critically.

Requirements for the Bachelor's Degree

Requirements for the major: completion of the core and one emphasis, plus theatre arts electives to make 85 units.

Basic core:

Theatre Arts 222 (for a total of two units); 231, 232 or 233, 236, 251, 252; four units of Theatre Arts 320 A,B or C; six units of Theatre Arts 320 D; 346, 351, 361, 362, 363; five units chosen from Theatre Arts 450, 451, 455, 456, 461, 475, 476.

Acting emphasis:

Theatre Arts 131, 211, 245, 253, 312, 352, 353, 354, 485, 550.

Design/technical emphasis:

Theatre Arts 131, 222, 232 or 233 (if not taken for core), 332; four units of 334; 336; six units of 337 and/or 338; 430, 530.

Dramatic literature/graduate school emphasis:

Theatre Arts 211, 332, 336, 446; and, in addition to core, Theatre Arts 450, 461, 475 or 476.

Requirements for a minor in theatre arts: Theatre Arts 222, 231, 236, 251, 252, 320D, 346, 351, 361, 362, 363, and one course selected from the dramatic literature sequence, 450–476.

Certificate Program

The Department of Theatre Arts offers a certificate program in Children's Theatre. Details concerning this program are found on Page 92.

334 / Theatre Arts

131. STAGE MAKEUP

Theory and application of stage makeup. (2 units)

211. ORAL INTERPRETATION OF LITERATURE

Introduction to the techniques of the oral performance of literature; emphasizes literary and aesthetic analysis and the oral presentation of poetry and prose. (3 units)

221. THEATRE LABORATORY: PERFORMANCE

Students select their own scenes and one-act plays which they act and direct in an informal studio setting. Open to all students. A maximum of five units of Theatre Arts 221 or 222 in any combination may be used to satisfy graduation requirements. (1 unit)

222. THEATRE LABORATORY: CONSTRUCTION

Laboratory application of technical theatre (scenery, costumes or lighting) for an audience. Open to all students. A maximum of five units of Theatre Arts 221 or 222 in any combination may be used to satisfy graduation requirements. (1 unit)

231. STAGECRAFT

Introduction to the theory and practice of scenery and prop construction including the use of tools, materials, techniques and drafting required in execution of designs. Theatre Arts 222 must be taken concurrently. (3 units)

232. LIGHTING THEORY

Basic electrical theory, refraction, reflection, color in light, instrumentation and control equipment used in theatre. Theatre Arts 222 must be taken concurrently. (2 units)

233. COSTUME CONSTRUCTION

Costume techniques including basic pattern drafting, cutting, fitting and construction of garments. Theatre Arts 222 must be taken concurrently. (2 units)

236. INTRODUCTION TO DESIGN

Study of the elements of line, color and texture through two- and three-dimensional projects as they relate to scenery and costume design. (2 units)

245. BEGINNING THEATRE MOVEMENT

Beginning theory and fundamentals of specialized stage movement. (2 units)

250. THE ART OF THEATRE ARTS

Development of an awareness of such arts of the theatre as set, costume and lighting design; of acting and directing; of theatre management, organization; and of the history of theatre architecture and dramatic literature. The course will be arranged around a contemporary theatrical event. (5 units)

251. ACTING I

Foundation training for actors through theatre games, improvisation and exercises for developing expressive freedom, creativity, relaxation and concentration. (3 units)

252. ACTING II

Fundamentals for creating a role methodically. Improvisational exercises encouraging the use of such elements as objectives, given circumstances, character analysis and conflict. *Prerequisite: Theatre Arts 251.* (3 units)

253. VOICE FOR THE STAGE

Theory and practice of vocal techniques for the actor, including voice production, diction, flexibility, projection and voice care. (2 units)

302. ANALYSIS OF DRAMA

The literary experience through study of structure and theme in selected plays. (Students who enroll in this course may receive either English or Theatre Arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.)

312. ORAL INTERPRETATION FOR THE THEATRE

Techniques for the oral performance of drama, including literary and aesthetic analysis of plays. (3 units)

320. THEATRE PRACTICUM

Performance students experience role preparation, rehearsal and acting before an audience; Imagination Players gain touring experience in rehearsal and performance of children's literature, readers theatre style; Touring Theatre students experience rehearsal and performance of adult dramatic material; technical production students experience application of scenery, costumes, lighting or stage management; special projects students experience production of student-developed projects. Open to all students. No more than 10 units of theatre practicum may be counted toward fulfilling course requirements in the theatre arts major. No more than 20 units of theatre practicum may be used to satisfy graduation requirements.

- A. Performance (2 units)
- B. Imagination Players (2 units)
- C. Touring Theatre (2 units)
- D. Technical Production (2 units)
- E. Special Projects (2 units)

332. STAGE LIGHTING DESIGN

Basic lighting design theories. Lighting design plots for various theatrical styles will be developed. May be repeated for credit up to nine units. *Prerequisites: Theatre Arts 222, 231 and 232.* (3 units)

334. THEATRE CRAFTS

Theory and application of a theatre craft such as: stage lighting, lighting design, costume construction, pattern drafting, rendering or scene painting. Experience with the craft will be provided. May be repeated for credit as topics change and with the consent of the instructor. (2 units)

336. DESIGN: ELEMENTS OF SCENERY AND COSTUME DESIGN

Projects in scenic and/or costume design. Concentration on tools of the designers, renderings, floor plans and elevations. May not be repeated for credit. *Prerequisites: Theatre Arts 231 and 236.* (3 units)

337. DESIGN: COSTUME DESIGN

Advanced projects in the design of costumes with an emphasis on rendering techniques and stylization. A maximum of 12 units of Theatre Arts 337 or 338, in any combination, may be applied toward the theatre arts degree. *Prerequisite: Theatre Arts 336.* (3 units)

338. DESIGN: SCENE DESIGN

Advanced projects in scene design, using both renderings and models. Concentration on an exploration of design styles. A maximum of 12 units of Theatre Arts 337 or 338, in any combination, may be applied toward the theatre arts degree. *Prerequisite: Theatre Arts 336.* (3 units)

339. TECHNICAL PRODUCTION FOR CHILDREN'S THEATRE

Study of basic scenery and costume techniques, as well as improvised construction methods and materials for teachers of the first through sixth grades. May not be counted toward fulfilling requirements in the theatre arts major.

- A. (2 units)
- B. *Prerequisite: Theatre Arts 339A.* (2 units)

345. THEATRE MOVEMENT

Theory and fundamentals of specialized stage movement including techniques in "physicalizing" a script and/or score, period manners, stage encounters and altercations.

- A. (2 units)
- B. (2 units)

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346. DIRECTING I

Fundamentals of play directing through theory and practice. *Prerequisite: Theatre Arts 252 or consent of instructor.* (3 units)

351. ACTING III

Application of acting techniques through scene study of plays in the contemporary repertory. *Prerequisite: Theatre Arts 252.* (3 units)

352. ACTING IV

Continued scene study with an emphasis on plays in the modern classical repertory (for example, Ibsen, Chekhov, Shaw). *Prerequisite: Theatre Arts 351.* (3 units)

353. ACTING V

Studies and performance of selected styles in theatre from classical times to the 19th century. *Prerequisite: Theatre Arts 351 or 352.* (3 units)

354. ACTING VI

Concentrated study on performing Shakespeare, with emphasis on voice, movement and textual meaning. *Prerequisite: Theatre Arts 351 or 352.* (3 units)

361. THEATRE HISTORY I: ORIGINS THROUGH MEDIEVAL

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (5 units)

362. THEATRE HISTORY II: RENAISSANCE THROUGH 18TH CENTURY

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts. Representative examples of dramatic literature will be read to illustrate those trends. (5 units)

363. THEATRE HISTORY III: 19TH CENTURY TO THE PRESENT

Consideration of theatre architecture and theatre practices for the purpose of understanding the major trends in the development of theatre arts, including the impact of Asian theatre. Representative examples of dramatic literature will be read to illustrate those trends. (5 units)

380. ACTING FOR NON-MAJORS

Introduction to acting through exercises, improvisations, and scene study. Not open to theatre arts majors. (3 units)

381. READERS THEATRE IN THE CLASSROOM

Classroom application of group techniques for oral performance and staging of children's literature. Includes the preparation and performance of scripts to be used for reading enhancement and interdisciplinary studies, as well as the creation of original scripts. May not be counted toward fulfilling requirements of the theatre arts major. (3 units)

430. ADVANCED STAGECRAFT

Advanced problems in planning, drafting, construction and rigging of scenery. *Prerequisites: Theatre Arts 222, 231, 236, 320D, 336.* (3 units)

445. THE CAMERA EYE

Film as a creative art medium. Such topics as the history of silent film, film since the '50's or television will be chosen. May be repeated for credit as topics change. May not be counted toward fulfilling requirements in the theatre arts major. (5 units)

446. DIRECTING II

Advanced studies in play directing. Concurrent enrollment in Theatre Arts 320E required. *Prerequisite: Theatre Arts 346.* (3 units)

450. CLASSICAL DRAMA

Development of comedy and tragedy in Greece and Rome. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

451. MYSTERY TO MELODRAMA

Development of drama from medieval passion plays to late 19th century villain-hissing melodramas. Emphasis on either comedy or tragedy. (5 units)

455. MODERN DRAMA I

European, British and American realism, beginning with variations of the 19th century well-made play. Emphasizes such playwrights as Ibsen, Chekhov, Shaw and O'Neill. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

456. MODERN DRAMA II

European, British and American anti-realism, including various avant-garde movements. Emphasizes such playwrights as Brecht, Pinter, Wilder and Genet. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

461. AMERICAN DRAMA

Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society. (5 units)

475. SHAKESPEARE I

Comedies and history plays. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

476. SHAKESPEARE II

Tragedies and romances. (Students who enroll in this course may receive either English or theatre arts credit, but not both. Liberal studies majors cannot use this course to satisfy the 17½ units of electives required in humanities.) (5 units)

481. CREATIVE DRAMATICS

Experience with improvisational dramatic techniques which emphasize concentration, imagination and self-expression and are designed to develop creative leadership for parents, recreation leaders, elementary and secondary teachers. May not be counted toward fulfilling requirements in the theatre arts major. (5 units)

482. READERS THEATRE

Group techniques for oral performance and staging of literature. Includes the preparation and performance of scripts for readers theatre, choral theatre, story theatre and chamber theatre. *Prerequisites: Theatre Arts 211, 312, or consent of instructor.* (3 units)

483. CHILDREN'S THEATRE

Theory and techniques of selecting, directing and producing plays for child audiences; includes examination and evaluation of scripts, audience analysis, and the philosophy and application of children's theatre in an educational setting. (5 units)

485. ACTING THEORY

Historical performance and theory of the art of acting from classical to the present. (2½ units)

510. STUDIES OF MAJOR FIGURES AND GENRES

May be repeated for credit with consent of instructor. (5 units)

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520. THEATRE SEMINAR

Literature and theory relative to topics such as: aesthetics, theatre history, drama, dramatic criticism and design. May be repeated for credit as topics change. (5 units)

530. CAREER PREPARATION FOR DESIGNERS AND TECHNICIANS

Preparation of the designer/technician portfolio, including resumés for graduate school or the professional world. Occasional guest lecturers and field trips. *Prerequisite: senior standing or consent of instructor.* (2 units)

550. CAREER ORIENTATION FOR ACTORS

Preparation for working in professional theatre, including development of audition material, resumés and techniques, and insights into the theatrical process. Occasional guest lecturers. *Prerequisite: senior standing or consent of instructor.* (2 units)

555. INDEPENDENT STUDY

Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. *Prerequisites: a minimum overall grade-point average of 3.0, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.* (5 units)

VOCATIONAL EDUCATION

School of Education

Pfau Library Building, Room 500 North

887-7571

The Bachelor of Vocational Education (B.V.E.) is an opportunity for vocational teachers with extensive occupational and professional experience to pursue a baccalaureate degree program in the School of Education at California State College, San Bernardino. The degree is made possible through legislation, commonly called the Swan Bill, which provides college credits for work experience in related fields. The degree can be awarded only to students who obtain the designated subjects teaching credential and an evaluation by the California State Board of Examiners for Vocational Teachers (Swan Bill evaluation), either prior to or concurrent with the degree program. To qualify for the evaluation, the applicant must have:

- a. Seven years of full-time work experience, and
- b. Either two years of full-time or three years of part-time teaching experience,

or

1600 hours of full-time or 1000 hours of part-time teaching experience.

Students wishing to pursue the B.V.E. must be interviewed by the program coordinator and approved for admission.

Credits for the B.V.E., with a major in vocational arts, derive from: work experiences, teaching experiences, college courses and examinations.

Requirements for the B.V.E.:

Lower-division general education *	60 units
Upper-division general education	15 units
Major in vocational arts **	45 units
Designated subjects (credential program) and education electives	40 units
Prescriptive electives	26 units
Total	186 units

* May be completed through an appropriate selection of courses at a community college or at CSCSB

** Up to 60 units will be awarded for work experience by the Swan Bill evaluation

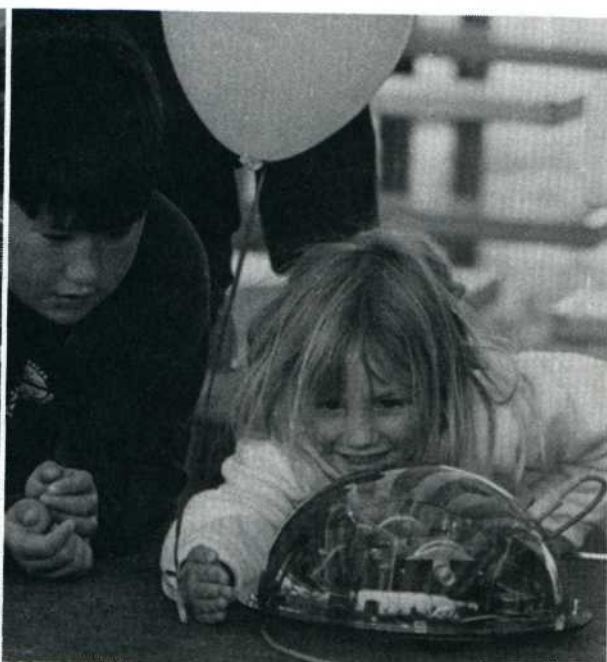
A major portion of the credit in vocational arts for work experience will be awarded by the Board of Examiners for Vocational Teachers upon application by the student (Swan Bill evaluation). The program requires a minimum of 20 upper-division units in the major. Based on the recommendation of the College's vocational education advisor, up to 18 units of the credit awarded by the board

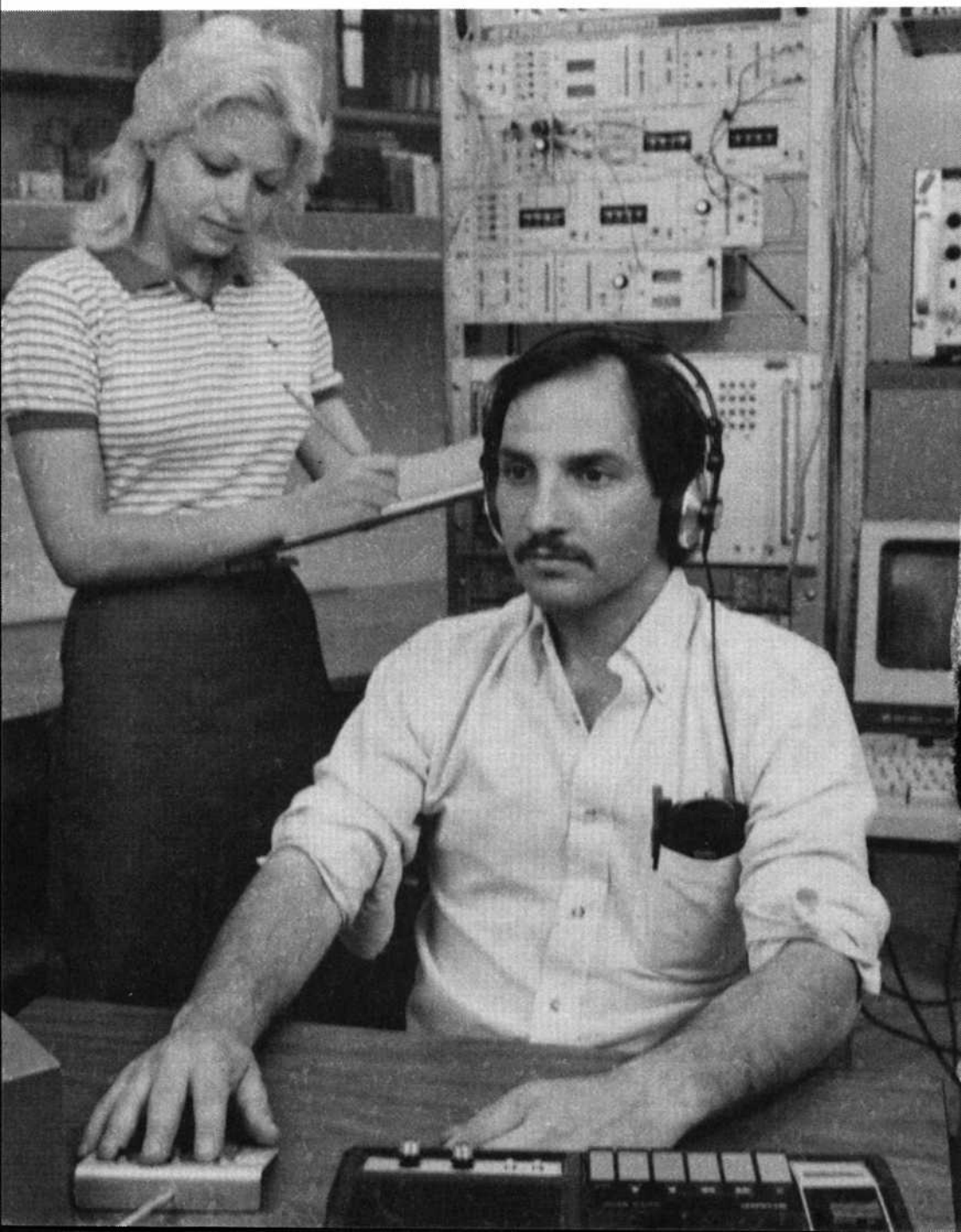
may be designated upper division. The remaining units in the vocational arts major are to be taken in regular courses, related to the student's specific interests, selected with the approval of the vocational education advisor. Courses in education may not be used in this portion of the degree program. In cases where the amount of credit awarded by the Board of Examiners for Vocational Teachers appears to be minimal, a student may be required to enroll in additional lower-division vocational arts courses at a community college.

Ordinarily a student will have obtained the designated subjects credential before enrolling in the B.V.E. degree program, but provisions can be made for concurrent completion. The credential may be awarded either by the University of California or by a campus of the California State University and Colleges. A student should consult the School of Education for information about the credential program. The total degree-applicable credit allowed for the credential and electives in professional education is 40 units.

Additional courses required to meet graduation requirements must be chosen in consultation with the vocational education advisor from among courses and programs throughout the college except for professional education. Degree candidates are urged to use these prescriptive electives to develop a secondary educational objective—an academic major, an academic minor, a certificate or prerequisite work for graduate study. Courses transferred from another college which are not used elsewhere in the degree program may also be used as prescriptive electives.

Students younger than 25 years of age must present six units of physical education activity for graduation.





FACULTY 1984-85

Kerri L. Acheson, 1980

Lecturer in Administration

B.S. 1974, University of North Dakota; M.S. 1977, Utah State University.

Richard T. Ackley, 1974

Professor of Political Science; Director, National Security Studies Program

B.A. 1950, University of Southern California; M.A. 1969, University of Hawaii; Ph.D. 1973, University of Southern California.

Gene L. Andrusco, 1977

Assistant Professor of Administration

B.S. 1972, M.B.A. 1975, California State University, Los Angeles.

Toby D. Aswal, 1983

Lecturer in Administration

B.A. 1981, M.B.A. 1983, California State College, San Bernardino.

Margaret A. Atwell, 1981

Assistant Professor of Education

B.A. 1971, Marquette University; M.S. 1977, Ed.D. 1980, Indiana University.

Elliott R. Barkan, 1968

Professor of History

B.A. 1962, Queens College; M.A. 1963, Ph.D. 1968, Harvard University.

Ronald E. Barnes, Jr., 1965

Professor of Theatre Arts; Chair, Department of Theatre Arts

B.S.Ed. 1951, University of Minnesota; Ph.D. 1963, Stanford University.

Buckley B. Barrett, 1982

Senior Assistant Librarian

B.A. 1970, University of California, Los Angeles; M.S. 1973, University of Southern California.

Joe Bas, 1968

Professor of Spanish

A.B. 1958, California State College, Long Beach; A.M. 1964, Ph.D. 1966, University of Southern California.

Frances F. Berdan, 1973

Professor of Anthropology; Chair, Department of Anthropology

B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

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Francesca E. Bero, 1979

Assistant Professor of Education

B.A. 1968, California State University, Sacramento; M.A. 1972, San Francisco State University; Ph.D. 1979, Claremont Graduate School.

Anand R. Bhatia, 1972

Assistant Professor of Administration

B.Sc. 1957, M.E. 1961, Bombay University; B.S.E.E. 1964, Western States College of Engineering; M.B.A. 1966, D.B.A. 1975, University of Southern California.

Edward W. Bilderback, 1981

Associate Professor of Education

B.A. 1969, Trenton State College; M.Ed. 1970, Ph.D. 1979, The Pennsylvania State University.

Robert A. Blackey, 1968

Professor of History; Chair, Department of History

B.A. 1963, City College of New York; M.A. 1964, Ph.D. 1968, New York University.

Marty Bloomberg, 1966

Associate Library Director

B.A. 1960, Texas Christian University; M.A. 1961, University of Denver; M.A.T. 1968, University of Redlands.

Sheldon E. Bockman, 1973

Professor of Administration

B.A. 1958, M.A. 1960, University of Colorado; Ph.D. 1968, Indiana University.

Richard J. Botting, 1982

Associate Professor of Computer Science; Chair, Department of Computer Science

B.Tech., 1967, Ph.D. 1972, Brunel University, England.

David Bourquin, 1982

Senior Assistant Librarian

A.B. 1963, Wheaton College; M.Div. 1966, United Theological Seminary; M.Th. 1967, Princeton Theological Seminary; M.S. in L.S. 1971, University of Southern California.

Stephen A. Bowles, 1974

Professor of Education

B.A. 1960, University of Denver; M.A. 1964, University of Connecticut; Ph.D. 1972, University of California, Santa Barbara.

Irving H. Buchen, 1979

Professor of English; Dean, School of Humanities

B.A. 1952, M.A. 1955, New York University; Ph.D. 1960, The Johns Hopkins University.

Dominic M. Bulgarella, 1969

Associate Professor of Sociology

B.A. 1960, M.A. 1962, Ph.D. 1974, Michigan State University.

A. Vivien Bull, 1976

Associate Professor of French

B.A. 1942, Cambridge University; M.A. 1973, Ph.D. 1977, University of New Mexico.

Michael R. Burgess, 1970

Librarian

A.B. 1969, Gonzaga University; M.S. in L.S. 1970, University of Southern California.

B. Jill Buroker, 1981

Associate Professor of Philosophy

B.A. 1967, DePauw University; M.A. 1968, Ph.D. 1974, University of Chicago.

Louise F. Burton, 1982

Associate Professor of Education

B.S. 1958, Auburn University; M.S. 1972, Jacksonville State University; Ed.S. 1976, Ed.D. 1981, The University of Alabama.

Naomi J. Caiden, 1981

Professor of Administration; Chair, Department of Public Administration

B.Sc. 1959, University of London; M.A. 1966, Australian National University; Ph.D. 1978, University of Southern California.

Lloyd E. Campbell, 1975

Assistant Professor of Education

B.A. 1967, University of Minnesota; M.A. 1970, Michigan State University; Ed.D. 1976, Indiana University.

John S. Chaney, 1972

Professor of Administration, Chair, Department of Management

B.S. 1966, University of Southwestern Louisiana; M.B.A. 1968, Ph.D. 1971, University of Texas.

Ralph James Charkins, 1976

Associate Professor of Economics

B.A. 1966, University of Santa Clara; Ph.D. 1970, University of North Carolina.

C. Charles Christie, Jr., 1972

Associate Professor of Administration

B.A. 1967, M.P.A. 1969, California State College, Hayward; Ph.D. 1974, University of Southern California.

J. Milton Clark, 1983

Lecturer in English

B.A. 1972, California State College, San Bernardino; M.A. 1977, University of California, Riverside.

Stella Clark, 1971

Professor of Spanish

B.A. 1964, University of Mississippi; M.A. 1966, Ph.D. 1971, University of Kansas.

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K. Michael Clarke, 1976

Associate Professor of Administration

B.A. 1969, M.A. 1970, University College Dublin; Ph.D. 1975, University of Georgia.

Wallace T. Cleaves, 1971

Professor of Psychology

B.A. 1963, California State College, Hayward; M.A. 1966, California State College, Los Angeles; Ph.D. 1971, University of California, Riverside.

William T. Coleman III, 1983

Assistant Professor of Health Science

B.A. 1979, M.H.Ed. 1980, Brigham Young University; Ph.D. 1983, Purdue University.

Frances S. Coles, 1978

Associate Professor of Criminal Justice; Chair, Department of Criminal Justice

LL.B. 1969, Edinburgh University; M.Crim. 1970, D.Crim. 1975, University of California, Berkeley.

Margaret H. Cooney, 1983

Assistant Professor of Education

B.A. 1967, St. Mary's College; M.A. 1969, University of Illinois; Ph.D. 1981, University of Iowa.

Gloria A. Cowan, 1973

Professor of Psychology

B.A. 1959, University of Pennsylvania; M.S. 1961, Ph.D. 1964, Rutgers University.

John H. Craig, 1971

Associate Professor of Chemistry

B.S. 1964, George Washington University; Ph.D. 1969, Georgetown University.

Robert E. Cramer, 1978

Associate Professor of Psychology

B.A. 1973, M.A. 1975, Trinity University; Ph.D. 1978, University of Oklahoma.

James D. Crum, 1966

Professor of Chemistry; Dean, School of Natural Sciences

B.Sc. 1952, The Ohio State University; M.Sc. 1953, Marshall University; Ph.D. 1958, The Ohio State University.

Henry F. Dalton, 1983

Lecturer in Education

B.S. 1960, Southwest Texas State College; M.A. 1964, Instituto Tecnológico y de Estudios Superiores, Mexico; Ed.D. 1978, Utah State University.

M. Jane Darany, 1981

Assistant Professor of Nursing

B.S. 1971, Michigan State University; M.S. 1981, Loma Linda University.

David L. Decker, 1971

Professor of Sociology

B.A. 1967, St. Benedict's College; M.A. 1970, Kansas State University; Ph.D. 1975, University of Missouri, Columbia.

Margaret S. Doane, 1976

Associate Professor of English

B.A. 1970, University of Redlands; M.A. 1971, Northern Arizona University; Ph.D. 1976, University of Oregon.

G. Keith Dolan, 1967

Professor of Education

B.A. 1950, George Pepperdine College; M.Ed. 1952, Ed.D. 1961, University of California, Los Angeles.

Leo G. Doyle, 1971

Professor of Art

B.F.A. 1969, M.F.A. 1971, Rochester Institute of Technology.

Howard B. Dretel, 1980

Lecturer in Administration

B.S. 1974, Rider College; M.B.A. 1977, Fairleigh Dickinson University.

Amer El-Ahraf, 1973

Professor of Health Science; Chair, Department of Health Science and Human Ecology

D.V.M. 1962, Cairo University; M.P.H. 1965, Dr.P.H. 1971, University of California, Los Angeles.

Stuart R. Ellins, 1973

Professor of Psychology

A.B. 1967, University of Miami; M.A. 1970, Ph.D. 1972, University of Delaware.

Edward J. Erler, 1975

Professor of Political Science; Chair, Department of Political Science

B.A. 1967, San Jose State University; M.A. 1969, Ph.D. 1973, Claremont Graduate School.

Paul Esposito, 1976

Director of Placement

B.A. 1967, William Penn College; M.S. 1974, Ed.D. 1976, Indiana University.

Anthony H. Evans, 1982

Professor of History; President

B.A. 1959, East Texas Baptist College; M.A. 1961, University of Hawaii; Ph.D. 1966, University of California, Berkeley.

Elaine R. Everson, 1983

Lecturer in Administration

B.A. 1977, University of West Florida; M.B.A. 1982, California State Polytechnic University, Pomona.

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Bertram H. Fairchild, Jr., 1983

Assistant Professor of English

B.A., 1964, M.A. 1968, University of Kansas; Ph.D. 1975, University of Tulsa.

Richard Fehn, 1983

Assistant Professor of Biology

B.S. 1974, M.S. 1978, California State College, San Bernardino; Ph.D. 1983, University of Arizona.

Loren H. Filbeck, 1972

Professor of Music; Chair, Department of Music

B.A. 1964, M.A. 1968, Occidental College; D.M.A. 1975, University of Illinois.

Peter P. Fournier, 1983

Lecturer in Music

B.M. 1964, University of the Pacific; M.M. 1969, University of Southern California.

Sandra D. Fowler, 1983

Assistant Professor of Administration

B.A. 1965, Siena College; M.A. 1971, University of Minnesota; M.B.A. 1976, University of Miami.

Christopher F. Freiling, 1983

Assistant Professor of Mathematics

B.S. 1975, University of San Francisco; Ph.D. 1981, University of California, Los Angeles.

Darlene Gamboa, 1983

Lecturer in Biology

B.S. 1973, University of California, Riverside; Ph.D. 1982, University of California, Los Angeles.

Catherine C. Gannon, 1976

Professor of English

B.A. 1963, M.A. 1965, Ph.D. 1972, University of California, Los Angeles.

Ernest F. Garcia, 1968

Professor of Education; Dean, School of Education

B.A. 1955, University of California, Riverside; M.A. 1960, University of Redlands; Ed.D. 1966, University of California, Los Angeles.

Eugene Garver, 1974

Professor of Philosophy

B.A. 1965, Ph.D. 1973, University of Chicago.

Jane M. Georges, 1983

Lecturer in Nursing

B.A. 1976, University of Santa Clara; B.S. 1978, M.S. 1982, University of California, San Francisco.

David R. Gerling, 1980

Lecturer in Spanish

B.A., 1965, Marist College; M.A. 1968, New York University; Ph.D. 1975, University of Arizona.

Bruce Golden, 1965

Professor of English

B.S. 1955, Northwestern University; M.A. 1958, Ph.D. 1966, Columbia University.

Grace M. Goodrich, 1982

Lecturer in Administration

B.B.A. 1975, University of Michigan; M.S. 1979, Central Michigan University.

Carol F. Goss, 1971

Professor of Political Science

B.A. 1967, M.A. 1968, Ph.D. 1971, University of Arizona.

J. Peter Graves, 1975

Associate Professor of Administration

B.S. 1971, Ph.D. 1975, Brigham Young University.

Joseph W. Gray, 1969

Assistant Professor of Education

B.A. 1958, M.A. 1969, University of Redlands.

Chris C. Grenfell, 1975

Associate Professor of Physical Education and Recreation

A.B. 1971, San Diego State University; M.S. 1973, University of California, Los Angeles; Ph.D. 1984, University of Southern California.

Richard W. Griffiths, 1978

Professor of Education

B.S. 1955, M.S. 1962, Illinois State University; Ph.D. 1970, University of Illinois.

Joan T. Hallett, 1981

Assistant Professor of Mathematics

B.Sc. 1957, University of Exeter; Ph.D. 1961, University of London.

Diane F. Halpern, 1981

Associate Professor of Psychology

B.A. 1968, University of Pennsylvania; M.A. 1973, Temple University; M.A. 1977, Ph.D. 1979, University of Cincinnati.

Dalton Harrington, 1969

Professor of Biology

B.A. 1961, University of Omaha; M.S. 1965, University of Missouri, Kansas City; Ph.D. 1969, University of Nebraska.

Arlo D. Harris, 1967

Professor of Chemistry

B.S. 1961, University of Dayton; Ph.D. 1964, Tulane University.

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John M. Hatton, 1967

Associate Professor of Psychology; Associate Dean, Counseling and Health Services
B.A. 1961, University of Minnesota; Ph.D. 1965, Stanford University.

Melvin G. Hawkins, 1973

Professor of Sociology
B.A. 1959, Morehouse College; M.S.W. 1963, Atlanta University; Ph.D. 1977, United States International University.

Walter Hawkins, 1974

Director of Educational Opportunity Program Supportive Services
B.A. 1970, United States International University; M.S.W. 1972, San Diego State University.

Ann Marie Hearn, 1982

Assistant Professor of Administration
B.S. 1975, Western New England College; M.B.A. 1981, American International College.

Paul A. Heckert, 1983

Assistant Professor of Physics; Chair, Department of Physics
B.A. 1974, Frostburg State College; M.S. 1977, Ph.D. 1983, University of New Mexico.

John W. Heeren, 1971

Professor of Sociology
A.B. 1966, M.A. 1968, University of California, Riverside; Ph.D. 1975, Duke University.

Harold L. Hellenbrand, 1982

Assistant Professor of English
A.B. 1975, Harvard University; Ph.D. 1980, Stanford University.

Thomas Hemphill, 1980

Lecturer in Administration
B.S. 1968, M.B.A. 1978, California State University, Long Beach.

Craig E. Henderson, 1977

Student Affairs Administrator
B.A. 1967, Rutgers University; M.A. 1968, Colgate University; Ph.D. 1976, University of Denver.

Ronald K. Hennigar, 1983

Assistant Professor of Administration
B.B.A. 1966, Loyola University of Chicago; M.B.A. 1974, M.S. 1980, DePaul University.

Mildred M. Henry, 1983

Assistant Professor of Education
B.S. 1971, Agricultural, Mechanical and Normal College; M.S.Ed. 1976, Ph.D. 1983, Southern Illinois University.

Philip L. Herold, 1970

Associate Professor of Psychology
B.A. 1966, M.A. 1968, San Jose State College; Ph.D. 1974, Claremont Graduate School.

Capt. Stephen J. Heynen, 1983

Adjunct Assistant Professor of Military Science

B.A. 1975, M.B.A. 1983, California State College, San Bernardino.

Charles D. Hoffman, 1974

Professor of Psychology; Chair, Department of Psychology

B.S. 1967, Ph.D. 1972, Adelphi University.

M. Jeanne Hogenson, 1978

Director of Activities

B.A. 1966, Grinnell College; M.A. 1967, University of Wisconsin, Madison; M.A. 1973, College of William and Mary.

H. Arthur Hoverland, 1972

Professor of Administration; Dean, School of Business and Public Administration

B.S. 1951, Miami University; M.S. 1954, University of Illinois; Ph.D. 1963, University of Michigan.

Irvin Howard, 1981

Assistant Professor of Education

B.S. 1974, M.S. 1977, Ed.D. 1980, Illinois State University.

Robert L. Howell, 1983

Lecturer in Theatre Arts

B.A. 1973, University of California, Irvine; M.A. 1975, University of Washington.

Kimball N. Hughes, 1981

Associate Professor of Mathematics

B.S. 1974, Miami University; M.A. 1978, Ph.D. 1980, University of California, Los Angeles.

Dennis L. Ikenberry, 1965

Professor of Physics

B.A. 1961, Occidental College; M.A. 1965, Ph.D. 1965, University of California, Riverside.

Joseph T. Janczyk, 1976

Associate Professor of Economics

B.A. 1970, State University of New York at Buffalo; Ph.D. 1976, University of California, Riverside.

Fred E. Jandt, 1983

Associate Professor of Communication; Coordinator, Communication Program

B.A. 1966, Texas Lutheran College; M.A. 1967, Stephen F. Austin State University; Ph.D. 1970, Bowling Green State University.

Jorun B. Johns, 1965

Professor of German; Chair, Department of Foreign Languages and Literatures

Ph.D. 1956, University of Vienna.

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Paul J. Johnson, 1966

Professor of Philosophy

A.B. 1961, University of Chicago; M.A. 1963, Ph.D. 1969, The Johns Hopkins University.

Donald Kajcienski, 1983

Associate Dean, Enrollment Services

B.A. 1968, University of Detroit; M.A. 1973, Eastern Michigan University.

Lee H. Kalbus, 1965

Professor of Chemistry

B.S.Ed. 1950, Wisconsin State University; Ph.D. 1954, University of Wisconsin.

Julius David Kaplan, 1977

Professor of Art

B.A. 1963, Wesleyan University; M.A. 1965, Ph.D. 1972, Columbia University.

Jill H. Kasen, 1976

Associate Professor of Sociology

B.A. 1970, Douglass College; Ph.D. 1978, Rutgers University.

Martha Kazlo, 1975

Counselor

B.S. 1967, M.Ed. 1972, Ph.D. 1975, University of Maryland.

Charles F. Kellers, 1968

Professor of Physics

B.A. 1953, Swarthmore College; Ph.D. 1960; Duke University.

Rauf A. Khan, 1976

Professor of Administration; Chair, Department of Accounting and Finance

B.S. 1958, Montana State University; M.B.A. 1967, University of Montana; D.B.A. 1973, University of Colorado.

Brij B. Khare, 1968

Professor of Political Science

B.S. 1953, Agra, India; M.S. 1959, University of Toronto; M.A. 1963, Ph.D. 1968, University of Missouri, Columbia.

Nikolai E. Khokhlov, 1968

Professor of Psychology

M.A. 1967, Ph.D. 1968, Duke University.

Adria F. Klein, 1976

Associate Professor of Education

B.A. 1968, George Peabody College; M.A. 1970, West Virginia University; Ph.D. 1979, University of New Mexico.

Helene W. Koon, 1970

Professor of English

B.F.A. 1946, University of Iowa; M.A. 1948, Pasadena Playhouse; M.A. 1965, Immaculate Heart College; Ph.D. 1969, University of California, Los Angeles.

Ellen M. Kowalski, 1981

Lecturer in Physical Education

B.S. 1977, State University of New York College at Geneseo; B.S. 1979, State University of New York College at Brockport; M.A. 1981, University of Connecticut.

Larry L. Kramer, 1968

Professor of English

B.A. 1961, M.A. 1963, The Ohio State University; M.F.A. 1968, The University of Iowa.

Ellen L. Kronowitz, 1978

Associate Professor of Education

B.A. 1966, Queens College; M.A. 1969, Ed.M. 1974, Ed.D. 1976, Teachers College, Columbia University.

Ted Krug, 1972

Director of Financial Aid

B.A. 1968, California State College, San Bernardino; M.A. 1973, University of Redlands.

Carolyn Kubiak, 1978

Assistant Professor of Education

B.A. 1960, Saint Xavier College; M.S. 1971, Southern Illinois University; Ph.D. 1978, Saint Louis University.

Jerome C. Langham, 1976

Lecturer in Administration

B.A., 1964, M.B.A. 1969, Michigan State University.

Robert A. Lee, 1968

Professor of English

B.A. 1961, University of California, Riverside; Ph.D. 1966, University of Oregon.

Margaret Lenz, 1970

Professor of Education

B.A. 1951, M.Ed. 1957, University of California, Los Angeles; Ph.D. 1972, Claremont Graduate School.

Steven M. Levy, 1983

Associate Professor of Administration

B.A. 1967, University of Rochester; M.S. 1969, Cornell University; Ph.D. 1978, George Washington University.

Kathleen M. Lewicki, 1981

Assistant Professor of Theatre Arts

B.A. 1975, State University of New York College at Geneseo; M.F.A. 1978, Carnegie-Mellon University.

354 / Faculty

Denis R. Lichtman, 1969

Associate Professor of Mathematics

B.A. 1959, University of Pittsburgh; M.A. 1963, Ph.D. 1968, University of Washington.

Donald B. Lindsey, 1973

Associate Professor of Criminal Justice

B.S. 1970, M.S. 1971, Ph.D. 1973, University of Utah.

Roger P. Lintault, 1969

Professor of Art

B.S. 1960, State University of New York; M.F.A. 1962, Southern Illinois University.

Marsha B. Liss, 1976

Associate Professor of Psychology

B.A. 1971, Barnard College; Ph.D. 1976, State University of New York at Stony Brook.

Fook Fah Liu, 1970

Professor of Computer Science

B.Sc. 1956, Presidency College, India; M.S. 1983, University of Illinois; Ph.D. 1962, Purdue University.

Janice Loutzenhiser, 1976

Associate Professor of Administration

B.A. 1970, University of Southern California; M.A. 1972, George Washington University; J.D. 1975, University of Virginia.

Joseph B. Lovell, 1981

Lecturer in Administration

B.S. 1963, Drake University; M.B.A. 1966, Creighton University.

David J. Lutz, 1980

Associate Professor of Psychology

B.A. 1975, M.A. 1978, Ph.D. 1980, University of Kansas.

Loralee MacPike, 1978

Associate Professor of English

B.A. 1960, Bryn Mawr College; M.A. 1970, California State University, Hayward; Ph.D. 1976, University of California, Los Angeles.

Ward M. McAfee, 1965

Professor of History; Dean, School of Social and Behavioral Sciences

A.B. 1961, M.A. 1962, Ph.D. 1965, Stanford University.

John F. McDonnell, 1969

Professor of Administration; Chair, Department of Marketing and Management Science

B.S. 1955, Bowling Green State University; M.B.E. 1967, Ph.D. 1974, Claremont Graduate School.

Theodore R. McDowell, 1983

Assistant Professor of Geography

B.S. 1969, B.S. 1972, M.S. 1975, Brigham Young University; Ph.D. 1980, Oregon State University.

Larry E. McFatter, 1983

Assistant Professor of Music

B.M. 1977, Belmont College; M.M. 1979, D.M.A. 1983, Memphis State University.

Mary L. McGregor, 1975

Associate Professor of Nursing

B.S. 1971, M.S. 1976, Loma Linda University.

Patrick S. McInturff, Jr., 1978

Associate Professor of Administration

B.S. 1972, M.A. 1974, University of California, Riverside; J.D. 1976, La Verne University; Ph.D. 1979, University of California, Riverside.

Sarojam Mankau, 1968

Professor of Biology

B.A. 1949, Women's Christian College, India; M.S. 1952, Ph.D. 1956, University of Illinois.

Kenneth A. Mantei, 1968

Professor of Chemistry

A.B. 1962, Pomona College; Ph.D. 1967, Indiana University.

Terrell G. Manyak, 1978

Associate Professor of Administration

B.A. 1962, California State University, Northridge; M.P.A. 1963, Syracuse University; Ph.D. 1976, University of California, Los Angeles.

Carolyn A. Martin, 1974

Associate Professor of Physical Education and Recreation

B.S. 1968, Lincoln University; M.A. 1974, California State Polytechnic University, Pomona.

Lance A. Masters, 1981

Assistant Professor of Administration

B.A. 1973, University of California, Riverside; M.B.A. 1977, California State College, San Bernardino; M.A. 1980, Claremont Graduate School.

E. Clark Mayo, 1967

Professor of English

B.A. 1960, Brown University; B.D. 1963, Union Theological Seminary; M.A. 1965, Ph.D. 1971, University of Chicago.

Susan Meisenhelder, 1982

Assistant Professor of English

B.A. 1973, M.A. 1975, University of Florida; Ph.D. 1983, University of California, Riverside.

Thomas M. Meisenhelder, 1975

Professor of Sociology; Chair, Department of Sociology

B.A. 1968, Wake Forest University; M.A. 1972, Ph.D. 1975, University of Florida.

356 / Faculty

Alan W. Messing, 1981

Lecturer in Chemistry

B.S. 1963, University of Wyoming; M.S. 1966, California State University, Long Beach; Ph.D. 1970, University of California, Davis.

Kenton L. Monroe, 1965

Professor of Psychology

B.A. 1959, University of Oregon; M.S. 1963; Ph.D. 1964, Purdue University.

Jackie N. Moore, 1978

Lecturer in Administration

B.B.A. 1949, University of Texas; M.B.A. 1964, Harvard University.

Arthur Moorefield, 1973

Professor of Music

B.M. 1950, Cincinnati Conservatory; M.A. 1958, New York University; Ph.D. 1965, University of California, Los Angeles.

Joseph R. Moran, 1972

Professor of Art

B.A. 1970, University of California, Riverside; M.F.A. 1972, Claremont Graduate School.

Richard L. Moss, 1973

Professor of Economics

B.A. 1963, University of Minnesota; M.A. 1970, Ph.D. 1973, University of New Mexico.

Behrouz Moti, 1983

Lecturer in Computer Science

B.S. 1971, M.B.A. 1973, University of Nevada, Las Vegas; M.S. 1976, Ph.D. 1979, University of California, Riverside.

T. Patrick Mullen, 1981

Associate Professor of Education

B.A. 1960, Whittier College; M.A. 1970, Ph.D., 1971, University of Minnesota.

James L. Mulvihill, 1981

Assistant Professor of Geography

B.A. 1968, M.A. 1972, State University of New York at Buffalo; Ph.D. 1976, Michigan State University.

Arthur Nelson, 1963

Director of Library

B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

Frederick A. Newton, 1975

Professor of Psychology

B.S. 1967, St. Peter's College; M.S. 1970, Villanova University; Ph.D. 1975, University of Houston.

David H. Null, 1977

Assistant Professor of Health Science

B.A. 1964, University of California, Riverside; M.A. 1970, California State University, Hayward; Ph.D. 1975, University of California, Berkeley.

Renate M. Nummela, 1978

Associate Professor of Education

B.A. 1965, University of Nevada; M.Ed. 1975, Ph.D. 1978, University of Florida.

James S. Okon, 1981

Assistant Professor of Mathematics

B.S. 1974, University of California, Riverside; M.S. 1976, Michigan State University; Ph.D. 1980, University of California, Riverside.

Walter C. Oliver, 1969

Associate Professor of Spanish

B.A. 1963, New Mexico State University; M.A. 1966, Ph.D. 1970, University of New Mexico.

Theron Pace, 1969

Director, Services to Students with Disabilities

B.A. 1962, M.A. 1964, California State University, Fresno; Ph.D. 1967, University of Northern Colorado.

Elinore H. Partridge, 1981

Assistant Professor of English

B.A. 1958, University of Utah; M.A. 1963, New York University; Ph.D. 1970, University of California, Davis.

Mary G. Patterson, 1977

Professor of Nursing

B.S. 1942, Teachers College, Columbia University; M.A. 1947, New York University; Ed.D. 1967, University of California, Los Angeles.

Pola N. Patterson, 1978

Librarian; Head, Collection Development

B.A. 1970, M.S. 1971, University of Illinois.

Cynthia L. Paxton, 1979

Assistant Professor of Health Science

B.S. 1973, California State University, Chico; M.A. 1974, San Diego State University; Ph.D. 1979, University of Oregon.

Aurora T. Payad, 1981

Associate Professor of Administration

LL.B. 1959, Lyceum of the Philippines; M.P.A. 1967, University of the Philippines; M.P.A. 1972, Ph.D. 1975, University of Southern California.

Clifford T. Paynton, 1968

Professor of Sociology

B.A. 1958, Seattle Pacific College; M.A. 1962, Ph.D. 1964, University of Washington.

Dennis M. Pederson, 1970

Professor of Chemistry; Chair, Department of Chemistry

B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

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Ronald K. Pendleton, 1981

Assistant Professor of Education

B.A. 1964, California State College, Humboldt; M.A. 1978, California State University, Long Beach; Ph.D. 1981, Arizona State University.

Stuart M. Persell, 1967

Professor of History

B.A. 1962, University of California, Santa Barbara; M.A. 1963, Ph.D. 1969, Stanford University.

Patricia J. Peterson, 1983

Lecturer in Education

B.A. 1971, M.A.T. 1974, Rockford College; Ph.D. 1978, University of Florida.

Ralph H. Petrucci, 1964

Professor of Chemistry

B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin.

Thomas J. Pierce, 1976

Associate Professor of Economics; Chair, Department of Economics

B.A. 1971, La Salle College; M.A. 1975, Ph.D. 1976, University of Notre Dame.

James C. Pierson, 1971

Professor of Anthropology

B.A. 1965, M.A. 1969, Sacramento State College; Ph.D. 1972, Washington University.

Lee Porter, 1981

Associate Professor of Education; Dean of Extended Education

B.S. 1958, State University of New York College at Oswego; M.A. 1960, Ed.D. 1969, Syracuse University.

Gregory L. Price, 1971

Professor of Physical Education and Recreation

B.S. 1969, Fort Hays Kansas State College; M.S. 1972, California State College, Long Beach; Ed.D. 1978, Brigham Young University.

Reginald L. Price, 1978

Professor of Physical Education and Recreation; Chair, Department of Physical Education and Recreation; Athletic Director

B.S. 1964, MacMurray College; M.A. 1967, The Ohio State University; Ed.D. 1973, Oklahoma State University.

Jerrold E. Pritchard, 1983

Professor of Music; Associate Vice President, Academic Programs

B.A. 1964, M.A. 1966, California State University, Sacramento; D.M.A. 1969, University of Washington.

H. Stephen Prouty, Jr., 1964

Associate Dean, Academic Programs

B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

Johnnie Ann Ralph, 1971

Librarian; Head, Material Services

B.A. 1967, M.A. 1969, University of California, Riverside; M.L.S. 1970, University of Kentucky.

Jennifer L. Randisi, 1983

Assistant Professor of English

A.B. 1972, University of California, Berkeley; M.A. 1975, Ph.D. 1979, State University of New York, Stony Brook.

Nabil Y. Razzouk, 1982

Associate Professor of Administration

B.A. 1969, Middle East College, Lebanon; M.B.A. 1973, Andrews University; D.B.A. 1980, Arizona State University.

Dan C. Rinne, 1982

Assistant Professor of Mathematics

B.S. 1975, University of Missouri, Columbia; M.A., Ph.D. 1979, University of California, Santa Barbara.

Tom M. Rivera, 1972

Associate Dean, Educational Support Services

B.A. 1962, M.A. 1968, California State University, Los Angeles; Ed.D. 1973, University of California, Los Angeles.

J. Cordell Robinson, 1971

Professor of History; Associate Vice President, Academic Personnel

B.A. 1963, Columbia Union College; M.A. 1968, Ph.D. 1971, Indiana University.

James G. Rogers, 1974

Professor of Administration

A.B. 1949, Yale University; M.S. 1963, M.A. 1970, Ph.D. 1974, University of California, Los Angeles.

C. E. Tapie Rohm, Jr., 1983

Assistant Professor of Administration

B.S. 1973, M.A. 1974, Brigham Young University; Ph.D. 1977, Ohio University.

Richard H. Rowland, 1975

Professor of Geography; Chair, Department of Geography

B.A. 1965, San Diego State University; Ph.D. 1971, Columbia University.

Amanda Sue Rudisill, 1969

Professor of Theatre Arts

B.S. 1964, Millersville State College; M.A. 1966, Pennsylvania State University; Ph.D. 1972, Northwestern University.

Mireille G. Rydell, 1968

Professor of French

Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

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Judith M. Rymer, 1970

Professor of Education

B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas; Ph.D. 1970, The Ohio State University.

Sudha Saletore, 1980

Assistant Professor of Education

B.S. 1967, University of Delhi, India; M.Ed. 1977, Ph.D. 1980, University of Idaho.

John Sarli, 1983

Assistant Professor of Mathematics

A.B. 1974, Brown University; Ph.D. 1963, University of California, Santa Cruz.

Richard S. Saylor, 1968

Professor of Music

B.S. 1950, B.M. 1955, Ithaca College; M.M. 1958, University of Michigan; D.M.A. 1966, Stanford University.

Gerald M. Scherba, 1962

Professor of Biology; Vice President for Academic Affairs

B.S. 1950, M.S. 1952, Ph.D. 1955, University of Chicago.

Kent M. Schofield, 1966

Professor of History

B.A. 1961, University of California, Riverside; M.A. 1962, Claremont Graduate School; Ph.D. 1966, University of California, Riverside.

Peter R. Schroeder, 1967

Professor of English; Chair, Department of English

A.B. 1962, Stanford University; M.A. 1963, Ph.D. 1967, Harvard University.

Robert A. Schwabe, 1969

Director of Institutional Research

B.A. 1953, Denison University; M.A. 1958, Syracuse University; Ph.D. 1969, University of California, Riverside.

John A. Scribner, 1978

Lecturer in Administration

B.S. 1973, M.A. 1974, University of California, Riverside.

Robert A. Senour, 1970

Professor of Education; Director of Audiovisual Services

B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

David Shichor, 1976

Professor of Criminal Justice

B.A. 1962, Hebrew University; M.A. 1966, California State University, Los Angeles; Ph.D. 1970, University of Southern California.

Geoffrey A. Silver, 1982

Assistant Professor of Economics

B.A. 1977, Sonoma State University; M.A. 1980, University of Massachusetts.

Barbara Sirotnik, 1980

Associate Professor of Administration

A.B., B.S. 1973, M.S. 1979, Ph.D. 1980, University of California, Riverside.

William L. Slout, 1968

Professor of Theatre Arts

B.A. 1949, Michigan State University; M.S. 1950, Utah State University; Ph.D. 1970, University of California, Los Angeles.

Alexander Sokoloff, 1965

Professor of Biology

A.B. 1948, University of California, Los Angeles; Ph.D. 1954, University of Chicago.

Doyle J. Stansel, 1966

Associate Dean, Student Life

B.A. 1954, M.A. 1958, Pepperdine University.

Gordon E. Stanton, 1968

Professor of Education

B.A. 1948; M.A. 1952, Ed.D. 1967, University of California, Los Angeles.

Helena V. Stanton, 1977

Assistant Professor of Education

B.A. 1955, University of California, Los Angeles; M.A. 1970, Ph.D. 1976, University of California, Riverside.

Robert G. Stein, 1967

Professor of Mathematics; Chair, Department of Mathematics

B.A. 1961, Harvard College; M.A.T. 1962, Wesleyan University; M.A. 1967, Dartmouth College; Ph.D. 1975, University of Texas.

P. Richard Switzer, 1970

Professor of French

A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

Edward C. Teyber, 1979

Associate Professor of Psychology

B.A. 1972, University of California, Los Angeles; M.A. 1974, Ph.D. 1977, Michigan State University.

James D. Thomas, 1968

Professor of Political Science

B.S.F.S. 1955, Georgetown University; M.S. 1961, Ph.D. 1965, Claremont Graduate School.

John Tibbals, 1968

Librarian; Head, Patron Services

B.A. 1965, University of California, Santa Barbara; M.S.L.S. 1966, University of Southern California.

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Mayo C. Toruno, 1983

Assistant Professor of Economics

B.A. 1974, B.A. 1975, M.A. 1976, California State University, Los Angeles; M.A. 1979, Ph.D. 1983, University of California, Riverside.

Michael Trubnick, 1982

Assistant Professor of Administration

B.S.B.A. 1969, Northern Illinois University; M.B.A. 1980, DePaul University.

Wilson R. Turner, 1983

Lecturer in Computer Science

B.S. 1953, Massachusetts Institute of Technology; M.S. 1956, University of Colorado; Ph.D. 1961, Stanford University.

Patrick M. Vance, 1983

Lecturer in Health Science

B.A. 1975, University of Wisconsin; M.A. 1982, Mankato State University.

J. Paul Vicknair, 1982

Assistant Professor of Mathematics

B.S. 1974, M.S. 1978, Ph.D. 1982, Louisiana State University.

Steven R. Wagner, 1974

Associate Professor of Education; Chair, Department of Special Programs

B.A. 1964, San Jose State University; M.A. 1968, San Fernando Valley State College; Ph.D. 1973, Claremont Graduate School.

Carl P. Wagoner, 1969

Professor of Criminal Justice

B.S. 1960, Ball State University; M.A. 1964, Ph.D. 1971, Indiana University.

William Warehall, 1973

Professor of Art

B.F.A. 1968, Wayne State University; M.F.A. 1971, University of Wisconsin.

Lynda W. Warren, 1973

Professor of Psychology

B.A. 1964, College of William and Mary; Ph.D. 1970, University of Minnesota.

George A. Weiny, 1967

Professor of Physical Education and Recreation

B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

Michael G. Weiss, 1982

Assistant Professor of Psychology

B.A. 1974, University of California, San Diego; M.S. 1978, University of Southern California; Ph.D. 1983, University of Florida.

Edward M. White, 1965

Professor of English

B.A. 1955, New York University; M.A. 1956, Ph.D. 1960, Harvard University.

Peter D. Williams, 1983

Lecturer in Mathematics

B.S. 1979, Ph.D. 1983, University of St. Andrews, Scotland.

Bradford Wilson, 1981

Assistant Professor of Political Science

B.A. 1973, North Carolina State University; M.A. 1977, Northern Illinois University; Ph.D. 1981, Catholic University of America.

Ruth C. Wilson, 1971

Professor of Biology; Chair, Department of Biology

B.A. 1961, M.A. 1964, California State College, Los Angeles; Ph.D. 1971, Claremont Graduate School.

Alvin Wolf, 1975

Professor of Education

B.S. 1957, M.A. 1964, University of San Francisco; Ph.D. 1972, University of California, Berkeley.

Don Woodford, 1972

Professor of Art; Chair, Department of Art

B.A. 1963, Cornell College; M.A. 1964, Illinois State University; M.F.A. 1965, University of Wisconsin.

Donald C. Woods, 1968

Counselor and Test Officer

B.A. 1943, University of California, Los Angeles; B.D. 1948, Garrett Theological Seminary; M.A. 1951, Ph.D. 1956, University of Chicago.

Thomas E. Woods, 1981

Lecturer in Education

B.A. 1948, University of California, Berkeley; M.S. 1952, San Francisco State University; Ed.D. 1957, Stanford University.

Hubert Zelechowski, 1983

Associate Professor of Administration

B.S. 1959, Queens College; M.B.A. 1961, Indiana University.

Donna M. Ziebarth, 1977

Associate Professor of Nursing

B.S.N. 1959, P.H.N. 1960, Mount St. Mary's College; M.S. 1977, California State University, Los Angeles.

ADDENDUM

Frank A. Chimenti, 1984

Professor of Computer Science

B.A. 1961, Gannon University; M.S. 1963, John Carroll University; Ph.D. 1970, The Pennsylvania State University.

Janice L. Golojuch, 1984

Assistant Professor of Art

B.A. 1976, M.A. 1978, State University of New York at Albany; M.F.A. 1982, Syracuse University.

John W. Huonker, 1984

Lecturer in Administration

B.A. 1972, M.B.A. 1975, New York University.

Laura N. Kamptner, 1984

Lecturer in Psychology

B.S. 1976, San Diego State University; M.S. 1979, University of California, Davis.

Janet L. Kottke, 1984

Assistant Professor of Psychology

B.A. 1978, Wartburg College; M.S. 1981, Iowa State University.

Josephine G. Mendoza, 1984

Assistant Professor of Computer Science

B.S. 1974, M.Eng. 1977, University of the Philippines.

Clark Molstad, 1984

Assistant Professor of Administration

B.A. 1970, California State University, Los Angeles; M.A. 1973, University of California, Los Angeles.

Chetan Prakash, 1984

Assistant Professor of Mathematics

B.S. 1971, M.S. 1973, Delhi University, India; M.S. 1977, Ph.D. 1982, Cornell University.

James H. Wiebe, 1984

Associate Professor of Education

B.A. 1967, Fresno Pacific College; M.A. 1974, California State University, Fullerton; Ph.D. 1977, Arizona State University.

EMERITUS FACULTY

Rene F. Denneweyer, Professor of Mathematics, Emeritus, 1979
 Robert G. Fisk, Professor of Education, Emeritus, 1973
 Margaret K. Gibbs, Professor of Administration, Emeritus, 1980
 John E. Hafstrom, Professor of Mathematics, Emeritus, 1979
 Robert R. Harrison, Professor of Art, Emeritus, 1972
 Charles V. Hartung, Associate Professor of English, Emeritus, 1977
 Harold A. Jambor, Lecturer in Sociology, Emeritus, 1980
 Dorothy Johnson, Professor of Nursing, Emeritus, 1983
 Bernhardt L. Mortensen, Associate Professor of Sociology, Emeritus, 1978
 C. Michael O'Gara, Professor of Physical Education, Emeritus, 1977
 John M. Pfau, Professor of History; President, Emeritus, 1982
 Robert A. Smith, Professor of History, Emeritus, 1982
 Joseph K. Thomas, Vice President for Administration, Emeritus, 1982
 Elton N. Thompson, Professor of Education, Emeritus, 1983
 Robert L. West, Professor of Education, Emeritus, 1980

SPECIAL APPOINTMENTS

Ann Aul, 1980

Studio Music Instructor

B.S. 1954, Western Reserve University

John Barcellona, 1977

Studio Music Instructor

B.M. 1969, University of Hartford, M.A. 1976, California State College, Long Beach.

Phyllis Benson, 1970

Studio Music Instructor

B.M. 1951, Wheaton College.

Devy Barnett Buchen, 1982

Studio Music Instructor

B.A. 1959, Rutgers University.

Edward P. Casem, 1967

Studio Music Instructor

B.A. 1967, California State College, Fullerton; M.A. 1975, Claremont Graduate School.

Carol Cheek, 1981

Studio Music Instructor

B.A. 1972, Pacific Union College; M.M. 1974, University of Southern California.

Eugene Chieffo, 1984

Studio Music Instructor

B.M. 1982, Arizona State University.

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Susan Comstock, 1982

Studio Music Instructor

B.A. 1974, M.A. 1980, California State University, Los Angeles.

Dennis Dockstader, 1978

Studio Music Instructor

B.A. 1973, California State College, San Bernardino.

Karlin Eby, 1976

Studio Music Instructor

B.A. 1957, University of Washington; M.M. 1963, University of Oregon.

Sandra Fenton, 1983

Studio Music Instructor

B.A. 1976, Pomona College.

Lawrence Ford, 1983

Studio Music Instructor

B.M.E. 1967, North Texas State University.

Herbert Iverson, 1976

Studio Music Instructor

B.M. 1958, M.M. 1961, University of Redlands.

Lawrence Johansen, 1976

Studio Music Instructor

B.A. 1967, Fresno State University; M.M. 1972, University of Southern California.

James Keays, 1977

Studio Music Instructor

B.S. 1962, University of Redlands; B.M. 1970, M.M. 1971, University of Illinois.

Leslie Lashinsky, 1981

Studio Music Instructor

B.A. 1973, Middlebury College; M.F.A. 1976, California Institute of the Arts.

Catherine Graff MacLaughlin, 1976

Studio Music Instructor

B.A. 1962, University of California, Berkeley.

Frank Nall, 1970

Studio Music Instructor

B.A. 1956, University of Southern California.

Candice Palmberg, 1982

Studio Music Instructor

B.M. 1980, California State University, Long Beach.

Albert Rice, 1982

Studio Music Instructor

B.A. 1974, California State University, Fullerton; M.A. 1977, Claremont Graduate School.

Roger Rickson, 1982

Studio Music Instructor

B.A. 1961, California State University, San Diego; M.A. 1975, University of Redlands.

Victoria Shapiro, 1967

Studio Music Instructor

Diploma 1947, B.S. in Viola 1949, Juilliard School of Music.

William E. Stanford, 1980

Studio Music Instructor

B.M. 1973, University of Redlands; M.A. 1976, California State University, Fullerton.

Michael Tseitlin, 1980

Studio Music Instructor

M.M. 1974, Moscow Conservatory.

Armen Turadian, 1977

Studio Music Instructor

B.M. 1949, Oberlin College; M.M. 1951, University of Southern California.



APPENDIX

Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from Ted Krug, director of financial aid, Room 143, Student Services Building, phone 887-7741:

1. Student financial assistance programs available to students who enroll at California State College, San Bernardino;
2. The method by which such assistance is distributed among student recipients who enroll at California State College, San Bernardino;
3. The means, including forms, by which application for student financial assistance is made; the requirement for accurately preparing such applications;
4. The rights and responsibilities of students receiving financial assistance; and
5. The standards which the student must maintain in order to be considered to be making satisfactory progress for the purpose of establishing and maintaining eligibility for financial assistance.

The following information concerning the cost of attending California State College, San Bernardino is available from Ted Krug, director of financial aid, Room 143, Student Services Building, phone 887-7741. This information includes:

1. Fees and tuition (where applicable);
2. Estimated costs of books and supplies;
3. Estimates of typical student room and board costs or typical commuting costs; and
4. Any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information concerning the refund policy of California State College, San Bernardino for the return of unearned tuition and fees or other refundable portions of costs is available from Don Saponetti, accounting officer, Room 115, Administration Building, phone 887-7501.

Information concerning the academic programs of California State College, San Bernardino may be obtained from Dr. Jerrold E. Pritchard, associate vice president, academic programs, Room 194, Administration Building, phone 887-7521. This information may include:

1. The current degree programs and other educational and training programs;
2. The instructional, laboratory and other physical plant facilities which relate to the academic program;
3. The faculty and other instructional personnel;
4. Data regarding student retention at California State College, San Bernardino and, if available, the number and percentage of students completing the program in which the student is enrolled or expresses interest; and
5. The names of associations, agencies, or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution's accreditation, approval, or licensing.

Information regarding special facilities and services available to handicapped students may be obtained from Dr. Theron Pace, director of Services to Students with Disabilities, Room 107, Pfau Library Building, phone 887-7662.

Determination of Residence

The college Admissions Office determines the residence status of all new and returning students for nonresident tuition purposes. Responses to items 29–45 on the Application for Admission and, if necessary, other evidence furnished by the student are used in making these determinations. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The laws governing residence determination for tuition purposes by The California State University are found in Education Code Sections 68000–68090, 68121, 68123, 68124, 89705–89707.5, and 90408, and in Title 5 of the California Administrative Code, Sections 41900–41912. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by an adult who is physically present in the state while, at the same time, intending to make California his permanent home. Steps must be taken at least one year prior to residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax returns on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of his stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains his or her place of abode. The residence of a minor cannot be changed by act of the minor or that of the minor's guardian, so long as the minor's parents are living.

A married person may establish his or her residence, independent of spouse.

An alien adult may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Nonresident students seeking reclassification are required by law to complete a supplemental questionnaire concerning financial independence.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes.

Residence determination dates for 1984–85 academic year are:

Quarter term campuses		Semester term campuses	
Fall	September 20	Fall	September 20
Winter	January 5	Winter	January 5 (Stanislaus only)
Spring	April 1	Spring	January 25
Summer	July 1		

Questions regarding residence determination dates should be directed to the Admissions Office.

There are exceptions for nonresident tuition. Some of them provide for:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student who remained was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.

2. Persons who have been present in California with the intent of acquiring residence for more than a year before the residence determination date and have been entirely self-supporting for that period of time.

3. Persons below the age of 19 who have lived with and have been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.

4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception, once attained, is not affected by transfer of the military person outside the state.

5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.

6. Certain credentialed, full-time employees of California school districts.
7. Full-time State University employees and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
8. Certain exchange students.
9. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.

Any student, following a final decision about his residence classification by the campus, only may make written appeal to: The California State University, Office of General Counsel, 400 Golden Shore, Long Beach, CA 90802, within 120 calendar days of notification of the final decision on campus of his classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for a further review. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Administrative Code. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admission Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes and in the regulations between the time this catalog is published and the relevant residence determination date.

The Consortium of The California State University

The Consortium of the CSU—"The 1,000-Mile Campus"—is a separate, fully accredited, degree-granting entity of the CSU. It draws on the combined resources of the 19 campuses to offer external statewide and regional degree, certificate and teaching credential programs.

The Consortium was established in 1973 to meet the needs of adults who find it difficult or impossible to participate in regular on-campus programs. Instruction is thus provided students in convenient places at convenient times. Currently, programs are offered in more than 20 geographic areas throughout California.

Full- and part-time CSU faculty, as well as qualified experienced practitioners, go where the students are, or provide opportunities for individualized home study. Programs can be tailored to meet the specific needs of employees in business, industry, education or government.

Consortium programs are upper-division or graduate level. All courses offer residence credit leading to bachelor's or master's degrees. Credit and course work are transferable statewide. Programs are financed by student fees.

Academic policy for the Consortium is established by the statewide Academic Senate of the CSU. Degrees or certificates are awarded by the Consortium in the name of the Board of Trustees of the CSU. The Consortium is accredited by the Western Association of Schools and Colleges.

For more information contact: The Consortium of The California State University, 400 Golden Shore, Long Beach, CA 90802; (213) 590-5696.

The statewide Admissions and Records Office may be reached by dialing the following numbers: Los Angeles and Long Beach areas (213) 498-4119; all other areas in California toll free (800) 352-7517.

Eligibility Index

The following chart is used in determining the eligibility of graduates of California high schools (or California legal residents) for freshman admission to a State University or College. Grade-point averages are based on work completed in the last three years of high school, exclusive of physical education and military science. Scores shown are the SAT total and the ACT composite. Students with a given GPA must present the corresponding test score. Conversely, students with a given ACT or SAT score must present the corresponding GPA in order to be eligible.

The minimum eligibility index is: SAT = 3072 and ACT = 741. The index is computed either by multiplying the grade-point average by 800 and adding it to the total SAT score, or multiplying the grade-point average by 200 and adding it to 10 times the composite ACT score.

GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score
(----) ¹			2.96	15	704	2.71	20	904	2.47	25	1096	2.22	30	1296
3.20	11	512	2.95	16	712	2.70	21	912	2.46	25	1104	2.21	30	1304
3.19	11	520	2.94	16	720	2.69	21	920	2.45	26	1112	2.20	31	1312
3.18	11	528	2.93	16	728	2.68	21	928	2.44	26	1120	2.19	31	1320
3.17	11	536	2.92	16	736	2.67	21	936	2.43	26	1128	2.18	31	1328
3.16	11	544	2.91	16	744	2.66	21	944	2.42	26	1136	2.17	31	1336
3.15	12	552	2.90	17	752	2.65	22	952	2.41	26	1144	2.16	31	1344
3.14	12	560	2.89	17	760	2.64	22	960	2.40	27	1152	2.15	32	1352
3.13	12	568	2.88	17	768	2.63	22	968	2.39	27	1160	2.14	32	1360
3.12	12	576	2.87	17	776	2.62	22	976	2.38	27	1168	2.13	32	1368
3.11	12	584	2.86	17	784	2.61	22	984	2.37	27	1176	2.12	32	1376
3.10	13	592	2.85	18	792	2.60	23	992	2.36	27	1184	2.11	32	1384
3.09	13	600	2.84	18	800	2.59	23	1000	2.35	28	1192	2.10	33	1392
3.08	13	608	2.83	18	808	2.58	23	1008	2.34	28	1200	2.09	33	1400
3.07	13	616	2.82	18	816	2.57	23	1016	2.33	28	1208	2.08	33	1408
3.06	13	624	2.81	18	824	2.56	23	1024	2.32	28	1216	2.07	33	1416
3.05	14	632	2.80	19	832	2.55	24	1032	2.31	28	1224	2.06	33	1424
3.04	14	640	2.79	19	840	2.54	24	1040	2.30	29	1232	2.05	34	1432
3.03	14	648	2.78	19	848	2.53	24	1048	2.29	29	1240	2.04	34	1440
3.02	14	656	2.77	19	856	2.52	24	1056	2.28	29	1248	2.03	34	1448
3.01	14	664	2.76	19	864	2.51	24	1064	2.27	29	1256	2.02	34	1456
3.00	15	672	2.75	20	872	2.50	25	1072	2.26	29	1264	2.01	34	1464
2.99	15	680	2.74	20	880	2.49	25	1080	2.25	30	1272	2.00	35	1472
2.98	15	688	2.73	20	888	2.48	25	1088	2.24	30	1280	(----) ²		
2.97	15	696	2.72	20	896				2.23	30	1288			

¹ Students earning grade-point averages above 3.20 are eligible with any score.
² Students earning grade-point averages below 2.0 are not eligible for admission.

Student Conduct Code

Inappropriate conduct by students or applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, California Administrative Code. These sections are as follows:

41301. Expulsion, Suspension and Probation of Students. Following procedures consonant with due process established for the campus of which he is a student, any student of a campus may be expelled, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

- (a) Cheating or plagiarism in connection with an academic program at a campus.
- (b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.
- (c) Misrepresentation of oneself or of an organization to be an agent of a campus.
- (d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
- (e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his family or the threat of such physical abuse.
- (f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
- (g) Unauthorized entry into, unauthorized use of, or misuse of campus property.
- (h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.
- (i) Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college campus function without prior authorization of the campus president.
- (j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- (k) Abusive behavior directed toward, or hazing of, a member of the campus community.
- (l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
- (m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
- (n) For purposes of this Article, the following terms are defined:
 - (1) The term "member of the campus community" is defined as meaning California State University and Colleges Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
 - (2) The term "campus property" includes:
 - (A) real or personal property in the possession of, or under the control of, the Board of Trustees of the California State University and Colleges, and
 - (B) all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
 - (3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
 - (4) The term "behavior" includes conduct and expression.
 - (5) The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger or physical or emotional harm to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.
- (o) This Section is not adopted pursuant to Education Code Section 89031.
- (p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Disposition of fees: Campus Emergency; Interim Suspension. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such students for the semester, quarter or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

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The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University and Colleges other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

41304. Student Disciplinary Procedures for the California State University and Colleges. The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for the California State University and Colleges. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus President in such matters; conduct related determinations of financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board his actions taken under this section.

Board of Trustees Policy Relating to Conduct on State College Campuses

The following restatement of policy of the Board of Trustees of the California State Colleges is extracted from a resolution approved by the Board of November 1968.

RESOLVED, By the Board of Trustees of California State Colleges, that this Board recognizes the need for a clear understanding of those types of behavior considered wholly unacceptable within the College Community; and be it further

RESOLVED, That this Board wishes to indicate to staff, students, and visitors alike that any of the following violations of orderly conduct are to be considered cause for prompt and diligent corrective action on the part of appropriate officials, including college disciplinary proceedings and the bringing of criminal charges where appropriate:

1. Obstruction or disruption of any authorized state college activity, including those of auxiliary organizations, whether on state college property or at any location then controlled by a state college.
2. Obstruction of either pedestrian or vehicular traffic on state college owned or controlled property.
3. Physical abuse or detention of any member of the college community at any location or of any other person while that person is a visitor on state college owned or controlled property.
4. Theft of or damage to state college property or property of any person while that property is on state college owned or controlled property.
5. Conduct which endangers the health or safety of any person while on state college owned or controlled property or at any college sponsored or supervised function.
6. Unauthorized entry to or use of any state college facilities, including buildings, grounds and equipment.
7. Failure to comply with directions of college police and any other law enforcement officers while they are acting in the performance of their duties.
8. Illegal possession or use of firearms, explosives, dangerous chemicals or other weapons on state college owned or controlled property.
9. Failure to comply with directions of a State College President or his authorized designee(s) while acting in the performance of his (their) duties.
10. Disorderly conduct, breach of the peace, and aiding, abetting or procuring another to breach the peace on state college owned or controlled property or at any state college sponsored or supervised functions; and be it further

RESOLVED, That this resolution is not to be construed as superseding any additional violations as specified by law, the administrative code, the resolutions of this Board, or the rules of any particular college.

Nondiscrimination Policy

Sex

The California State University does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State College, San Bernardino. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State College, San Bernardino may be referred to Sandra Lyn Jensen, personnel officer, or Dr. J. Cordell Robinson, associate vice president, academic personnel, the campus officers assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region 9, 1275 Market Street, 14th Floor, San Francisco, CA 94103.

Handicap

The California State University does not discriminate on the basis of handicap in admission or access to, or treatment or employment in, its programs and activities. Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder prohibit such discrimination. Dr. J. Cordell Robinson, associate vice president, academic personnel, and the dean of students have been designated to coordinate the efforts of California State College, San Bernardino to comply with the Act in its implementing regulations. Inquiries concerning compliance may be addressed to these persons at 5500 State College Parkway, San Bernardino, CA 92407, (714) 887-7201.

Race, Color or National Origin

The California State University complies with the requirements of Title VI of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall, on the grounds of race, color or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program of The California State University.

Sexual Harassment

It is the policy of California State College, San Bernardino to maintain a working and learning environment free from sexual harassment of its students, employees and those who apply for student and employee status. Questions regarding sexual harassment should be addressed to Ms. Sandra Lyn Jensen, personnel officer, or Dr. J. Cordell Robinson, associate vice president, academic personnel.

Average Annual Costs and Sources of Funds

The 19 campuses and the Chancellor's Office of The California State University are financed primarily through funding provided by the taxpayers of California. The total state appropriation to the CSU for 1983-84, including capital outlay, is \$929,650,300. The total cost of education for CSU, however, is \$1,199,787,540 which provides support for a projected 242,460 full-time equivalent (FTE) students.

The total cost of education in the CSU is defined as the expenditures for current operations, including payments made to the students in the form of financial aid, including all fully reimbursed programs contained in state appropriations, but excluding capital outlay appropriations. The average cost of education is determined by dividing the total cost by the total FTEs. The average cost is further differentiated into three categories: state support (the state appropriation, excluding capital outlay), student fee support, and support from other sources (including federal funds).

Thus, excluding costs which relate to capital outlay (i.e., building amortization), the average cost of education per FTE student is \$4,948. Of this amount, the average student fee support per FTE is \$1,006. The calculation for this latter amount includes the amount paid by nonresident students.

SOURCE OF FUNDS AND AVERAGE COSTS FOR 1983-84 CSU BUDGET
(Projected enrollment: 242,460 FTE)

	Amount	Average cost per student (FTE) ^a	Percentage
Total cost of education.....	\$1,199,787,540 ^b	\$4,948	100.0%
State appropriation	916,291,300 ^c	3,779	76.4%
Student fee support	243,896,427	1,006 ^d	20.3%
Support from other sources	39,599,813	163	3.3%

^a For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load equivalent to 15 units per term. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.

^b The total cost of education does not include the amount related to the capital investment of the CSU. The estimated replacement cost of all the system's permanent facilities and equipment on the 19 campuses is currently valued at \$4.4 billion, excluding the cost of land.

^c This figure does not include the capital outlay appropriation of \$13,359,000.

^d The average costs paid by a student include the state university fee, student services fee, application fee, catalog fee and nonresident tuition. Individual students may pay less than \$1,006 depending on whether they are part-time, full-time, resident or nonresident students.

Student Services Fee

The student services fee, established by the Board of Trustees in January 1975, is a reimbursement to the General Fund used to provide the following student support services:

Counseling: Counseling assists students in personal growth, value formation and the resolution of personal problems which, especially in the period of young adulthood, may impede the learning process.

Testing: The Testing Office administers and interprets and, when necessary, develops tests used by Counseling, Career Planning and Placement, and other student support services. It also administers academic placement and advanced placement tests and conducts student profile surveys used in assessing the need for specific student support programs.

Career Planning and Placement: Career Planning Services focus the student on vocational and career opportunities related to a particular field of study. The Placement Office also assists students in preparing resumes, improving interviewing techniques, and in securing both part-time employment while students and full-time employment following graduation.

Social/Cultural Development: The Social/Cultural Development Program provides both opportunities and direction for students in developing organizational skills, planning and implementing programs, developing and administering program budgets and in working effectively with others to achieve a common goal.

Health Services: Student Health Services aid students to maintain physical and mental health and to avoid health-related problems which prevent active participation in the educational program.

Financial Aid Administration: Although funds for grants and loans are provided by federal and state governments and through private benefactors, the administrative staff required to assist students in securing needed financial support is funded through student services fee reimbursements.

Housing Administration: Not all campuses offer on-campus housing for students. Each campus, however, provides services to all students in their efforts to secure suitable housing near the campus and at a reasonable cost.

Dean of Students: Fifty percent of the administrative cost for coordination of student support programs has been funded by student services fee revenue since 1973–74. The dean provides leadership and direction for fee-supported programs as well as for other programs and personnel (for example, residence halls, student union, EOP, disabled students) not receiving student services fee support.

Refund of Fees

Details concerning fees which may be refunded, the circumstances under which fees may be refunded and the appropriate procedure to be followed in seeking refunds may be obtained by consulting Section 41803 (parking fees), 41913 (nonresident tuition), 42019 (housing charges) and 41802 (all other fees) of Title 5, California Administrative Code. In all cases it is important to act quickly in applying for a refund. Information concerning any aspect of the refund of fees may be obtained from the Business Office.

Procedure for Establishment or Abolishment of Student Body Fee

The law governing The California State University provides that a student body fee may be established by student referendum with the approval of two-thirds of those students voting. The student body fee was established at California State College, San Bernardino by student referendum on February 15, 1966. The same fee can be abolished by a similar two-thirds approval of students voting on a referendum called for by a petition signed by 10% of the regularly enrolled students (Education Code, Section 89300). The level of the fee is set by the chancellor. An increase in the student body fee may be approved by the chancellor only following a referendum on the fee increase approved by a majority of students voting. Student body fees support a variety of cultural and recreational programs, child care centers and special student support programs.

Privacy Rights of Students in Education Records

The federal Family Education Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (45 C.F.R. 99) and California Education Code Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to students records maintained by the campus, and the release of such records. In brief, the law provides that the campus must provide students access to records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained at the Dean of Students Office. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records and the information contained therein; 2) the official responsible for the maintenance of each type of record; 3) the location of access lists which indicate persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) the access rights of students records; 6) the procedures for challenging the content of student records; 7) the cost which will be charged for reproducing copies of records, and 8) the right of the student to file a complaint with the Department of Health, Education and Welfare. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is: The Family Educational Rights and Privacy Act Office (FERPA), Department of Education, 330 C St., Room 4511, Washington, D.C. 20202.

The campus is authorized under the act to release "directory information" concerning students. Directory information includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, class schedule information, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the Dean of Students Office.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus' academic, administrative or service functions and who have reason for using student records connected with their campus or other related academic responsibilities.

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of The California State University, by the chancellor or designee of The California State University, or by the president or designee of the institution. Further, it is not possible in a publication of this size to include all of the rules, policies and other information which pertain to the student, the institution and The California State University. More current or complete information may be obtained from the appropriate department, school or administrative office.

Nothing in this catalog shall be construed, operate as, or have the effect of an abridgement or a limitation of any rights, powers or privileges of the Board of Trustees of The California State University, the chancellor of The California State University or the president of the campus. The trustees, the chancellor and the president are authorized by law to adopt, amend or repeal rules and policies which apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or The California State University. The relationship of the student to the institution is one governed by statute, rules and policy adopted by the Legislature, the trustees, the chancellor, the president and their duly authorized designees.

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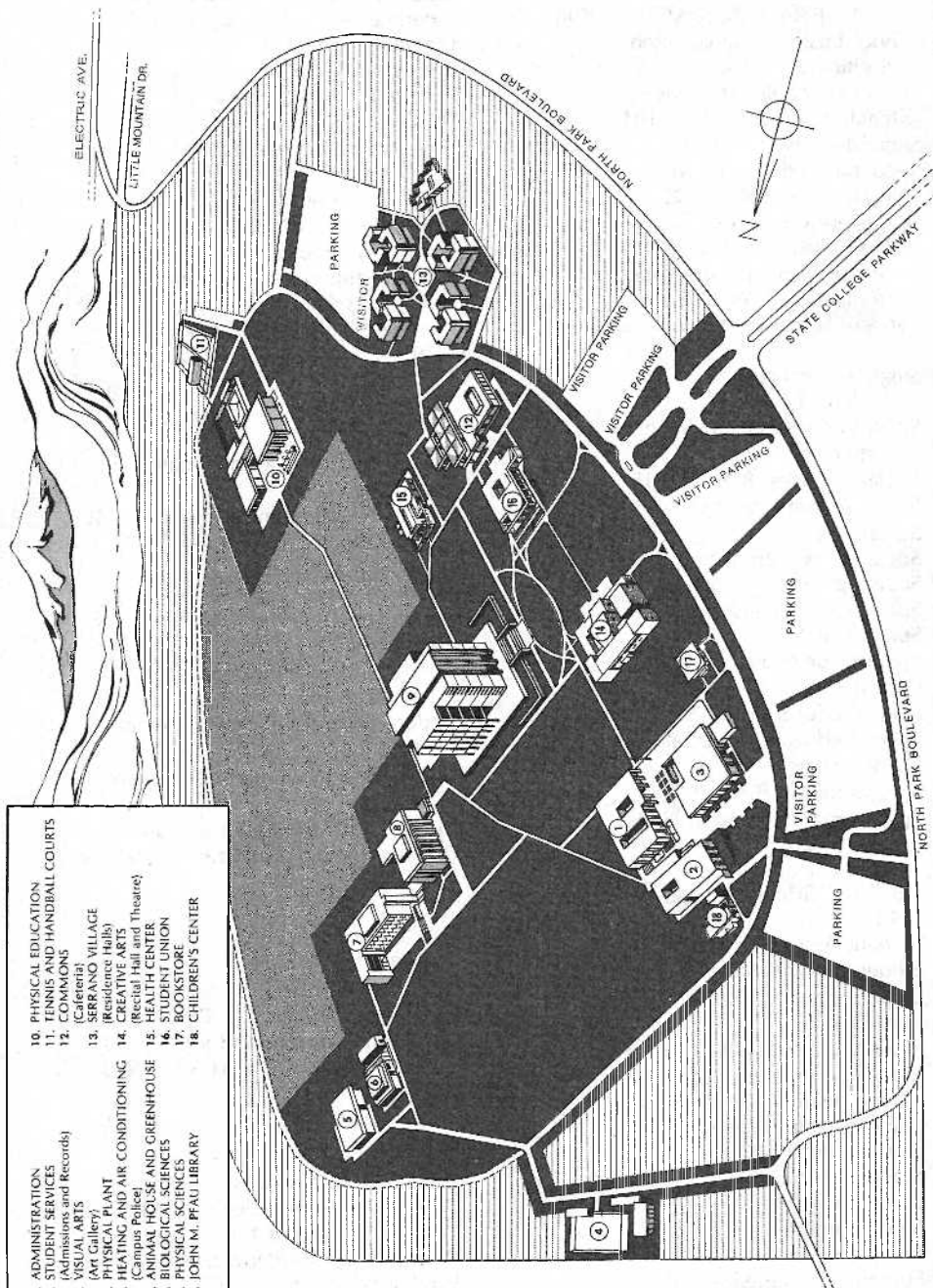
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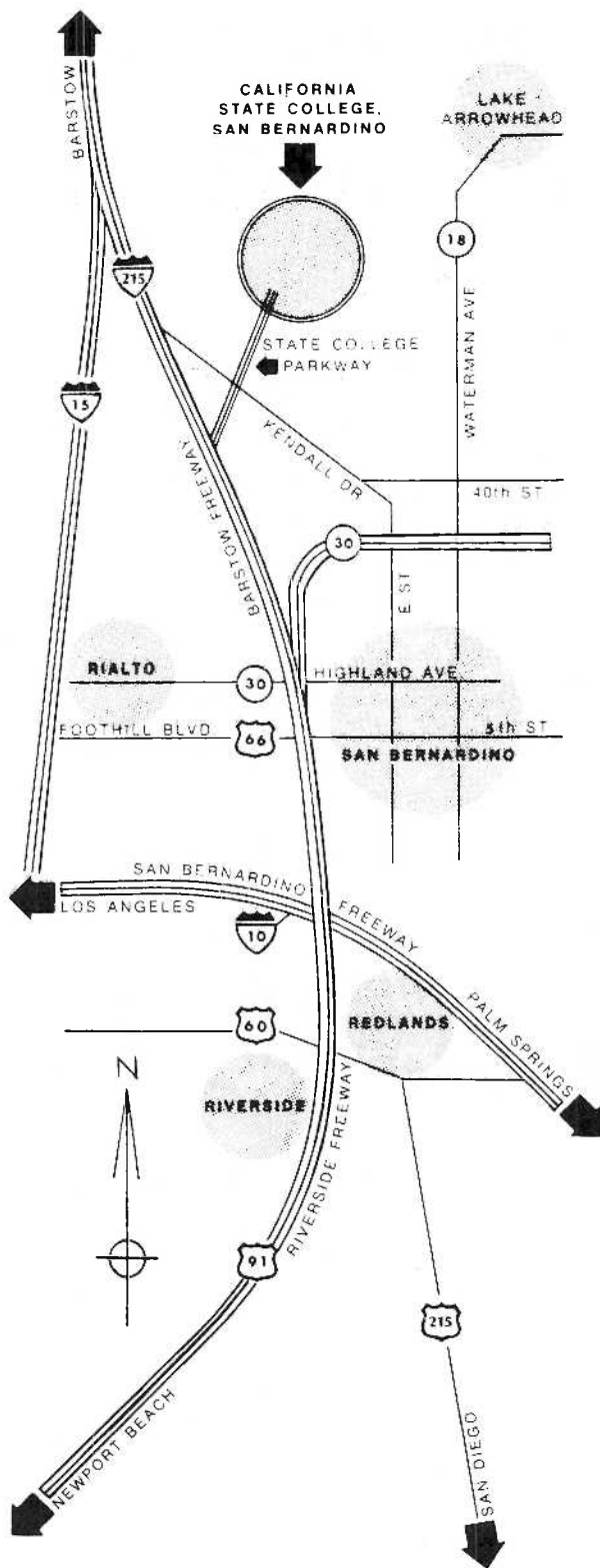
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